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WATER SUPPLY OUTLOOK FOR OREGON



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

**OREGON STATE UNIVERSITY and STATE ENGINEER
of OREGON**

AS OF
JAN. 1, 1974

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,
Alaska snow course.*

S.C.S. PHOTO A-272-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

| STATE | ADDRESS |
|--------------------|---|
| Alaska | 204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501 |
| Arizona | 6029 Federal Building, Phoenix, Arizona 85025 |
| Colorado (N. Mex.) | P. O. Box 17107, Denver, Colorado 80217 |
| Idaho | Room 345, 304 N. 8th. St., Boise, Idaho 83702 |
| Montana | P. O. Box 98, Bozeman, Montana 59715 |
| Nevada | P. O. Box 4850, Reno Nevada 89505 |
| Oregon | 1218 S. W. Washington St., Portland, Oregon 97205 |
| Utah | 4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138 |
| Washington | 360 U.S. Court House, Spokane, Washington 99201 |
| Wyoming | P. O. Box 2440, Casper, Wyoming 82601 |

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR OREGON

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

JANUARY 8, 1974

Issued by

KENNETH E. GRANT
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||
Released by

A. J. WEBBER
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PORTLAND, OREGON

In Cooperation with

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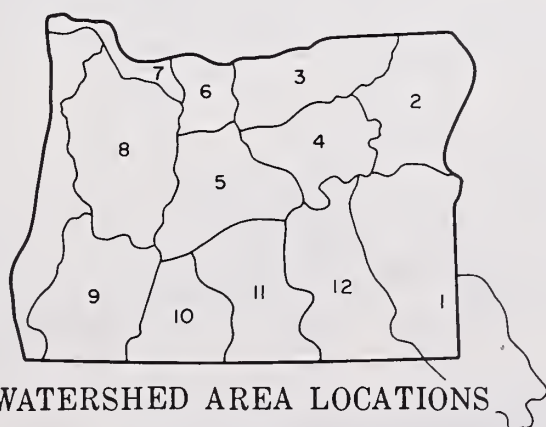
CHRIS L. WHEELER
STATE ENGINEER
STATE OF OREGON

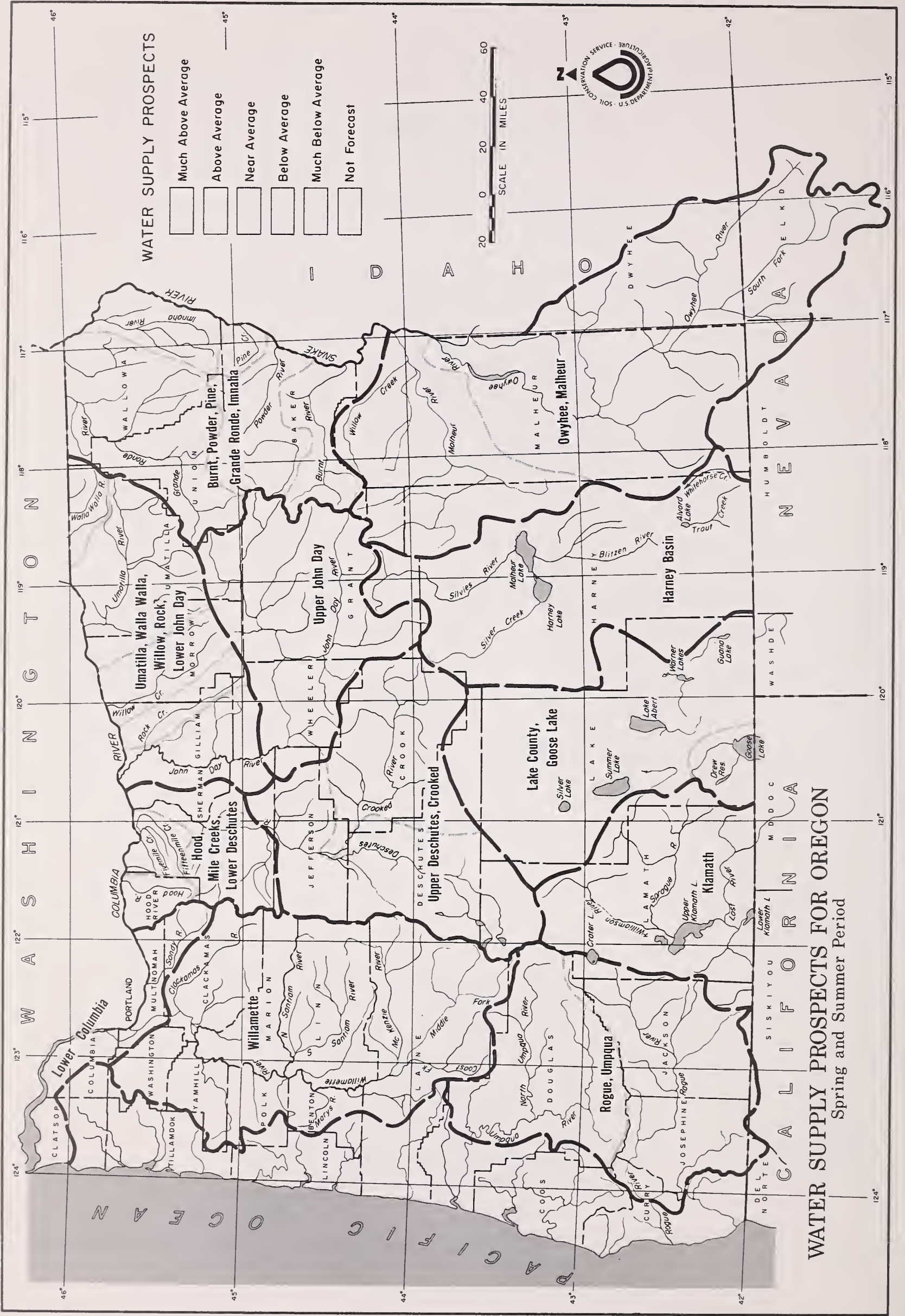
|||||
Report prepared by

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WATER SUPPLY PROSPECTS FOR OREGON
Spring and Summer Period

WATER SUPPLY OUTLOOK for OREGON

JANUARY 1, 1974

Excellent water supplies are in prospect for most Oregon water users next spring and summer. The mountain snowpack is nearly double the normal for January 1 over most of the state. Reservoir storage is above average in most locations and streamflow has been excellent for the past several months.

SNOW COVER

The snowpack in Oregon is around 200% of average over almost the entire state. Exceptions are Lake County, Eastern Klamath County, and the Crooked River area, which are near average to slightly above. An area in the Blue Mountains near Pendleton has a snow cover 300% of average.

SOIL MOISTURE

Soil moisture conditions around the state are generally well above average. Exceptions, again, being the areas of Lake and Eastern Klamath Counties where soils are somewhat drier than usual. This excellent condition will be of benefit when the snowpack starts melting in the spring.

PRECIPITATION

The precipitation in Oregon over the past three months has been excellent. Amounts have generally been 1 1/2 to 2 times the normal for this period. The only exception, again, being South Central and Southeastern Oregon where these amounts have been 120 to 150% of average.

RESERVOIR STORAGE

Twenty-seven of Oregon's major irrigation reservoirs are storing in excess of 1,800,000 acre feet for January 1. This is 114% of the 1958-72 average. Most reservoir levels are above normal with a few minor exceptions.

continued on next page

continued --

STREAMFLOW

Streamflow for the water year to date (Oct-Dec.) has generally been much above average due to the heavy precipitation.

Representative streamflow for this period is as follows:

| <u>STREAM</u> | <u>October-December Flow % Avg., 1958-72</u> |
|--------------------------------------|--|
| Owyhee Net Inflow | 97 |
| Chewaucan near Paisley | 187 |
| John Day at Service Creek | 335 |
| Grande Ronde at La Grande | 288 |
| Willamette, Middle Fork below N. Fk. | 200 |
| Umpqua near Elkton | 241 |
| Rogue at Raygold | 192 |
| Klamath Lake net Inflow | 138 |

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.



WATER SUPPLY OUTLOOK

OWYHEE, MALHEUR WATERSHEDS

OREGON

as of

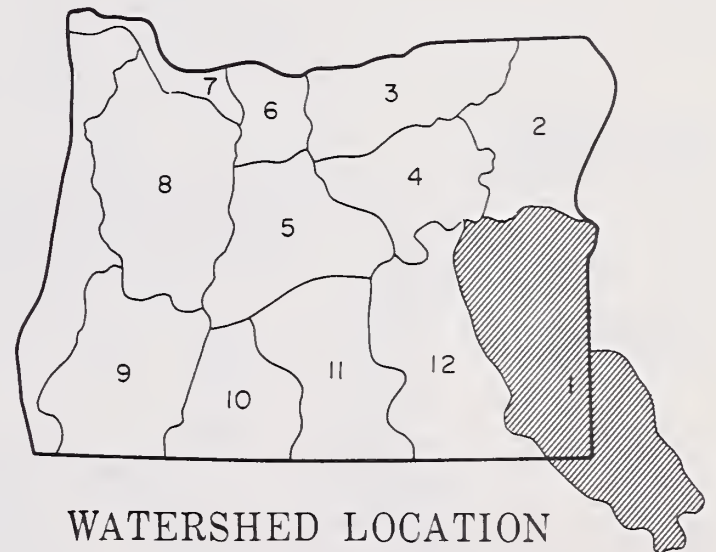
JANUARY 1, 1974

GENERAL OUTLOOK

THE GENERAL WATER SUPPLY OUTLOOK FOR THE OWYHEE, MALHEUR WATERSHEDS IS AVERAGE TO ABOVE AVERAGE FOR THIS COMING SEASON'S USE. RESERVOIR STORAGE IS ABOVE NORMAL ON THE OWYHEE AND ABOUT 60% OF AVERAGE ON THE MALHEUR. ALTHOUGH STORED SUPPLIES ARE SOMEWHAT SHORT ON THE MALHEUR, THE SNOWPACK IS TWICE NORMAL AND SHOULD SUPPLY GOOD INFLOWS TO THE RESERVOIRS COME SPRING. THE SNOW COVER ON THE OWYHEE IS ALSO 200% OF AVERAGE. SOIL MOISTURE IS ABOUT NORMAL ON THE UPPER OWYHEE AND 125% OF AVERAGE ON THE MALHEUR. PRECIPITATION FOR THE PAST THREE MONTHS HAS BEEN RUNNING WELL ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|---|---|-------------|
| | Spring Season | Late Season |
| Boulder Creek Bully Creek Cow Creek Jordan Creek Jordan Valley Irrig. Dist. McDermitt Creek Oregon Canyon Creek Owyhee Project Succor Creek Tenmile Creek Vale-Oregon Irrig. Dist. Warm Springs Irrig. Dist. Willow Creek (Reservoired) | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



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STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | | PAST RECORD | |
|---|--------------------|--------------------|-----------------|--------------------|----------------------|
| | FORECAST | | FORECAST PERIOD | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average ⁱ |
| Bully Creek at Warm Springs Jordan Creek above Lone Tree Creek Malheur near Drewsey Malheur, North Fork at Beulah Owyhee Reservoir net Inflow | c c c c | | | | |

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

| FORECAST POINT | Low Flow Value Second/Ft. | Forecast Date Stream Will Recede to Low Flow Value | Average Date of Low Flow Value |
|------------------|---------------------------|---|--------------------------------|
| Owyhee near Rome | | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|------------------|-----------------|----------------|-----------|----------------------|
| | | This Year | Last Year | Average ⁱ |
| Antelope | 70.0 | 2.8 | 1.9 | 6.2 ^m |
| Beulah Reservoir | 60.0 | 18.8 | 23.5 | 17.8 |
| Bully Creek | 30.0 | 8.9 | 5.6 | 10.4 ^m |
| Owyhee | 715.0 | 435.4 | 512.9 | 363.2 |
| Warm Springs | 191.0 | 29.7 | 88.4 | 65.6 |

SOIL MOISTURE

| RIVER BASIN | Number of Stations | THIS YEAR'S MOISTURE as PERCENT OF: | |
|---------------|--------------------|-------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| Malheur River | 2 | 190 | 125 |
| Owyhee River | 3 | 115 | 90 |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

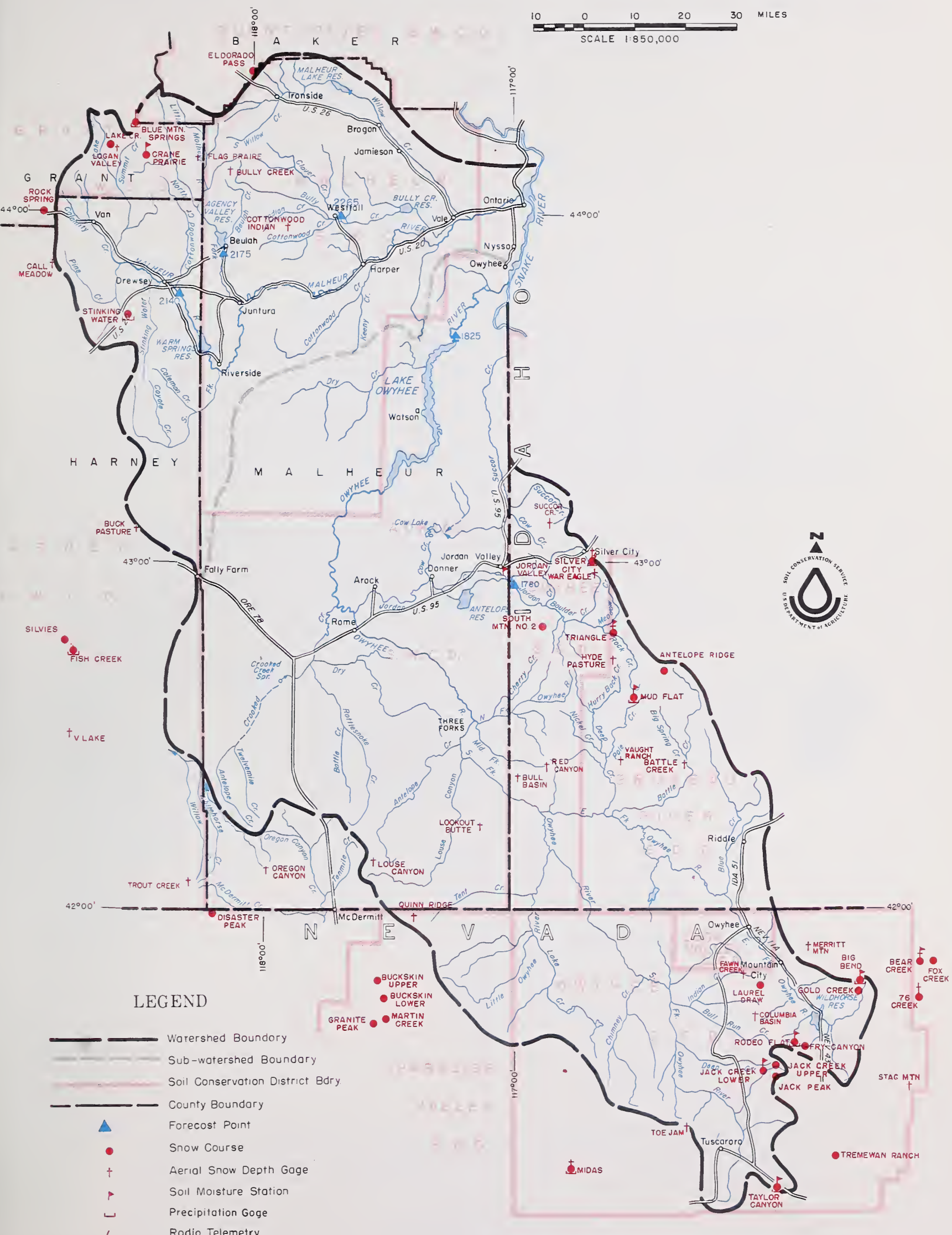
| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| Jordan Creek | 2 | 400 | 250 |
| Malheur River | 4 | 225 | 205 |
| Owyhee River | 4 | 185 | 210 |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from P&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.

OWYHEE, MALHEUR WATERSHEDS

10 0 10 20 30 MILES

SCALE 1:850,000



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- Soil Moisture Station
- Precipitation Gage
- Radio Telemetry

WATER SUPPLY OUTLOOK

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

OREGON

as of

JANUARY 1, 1974

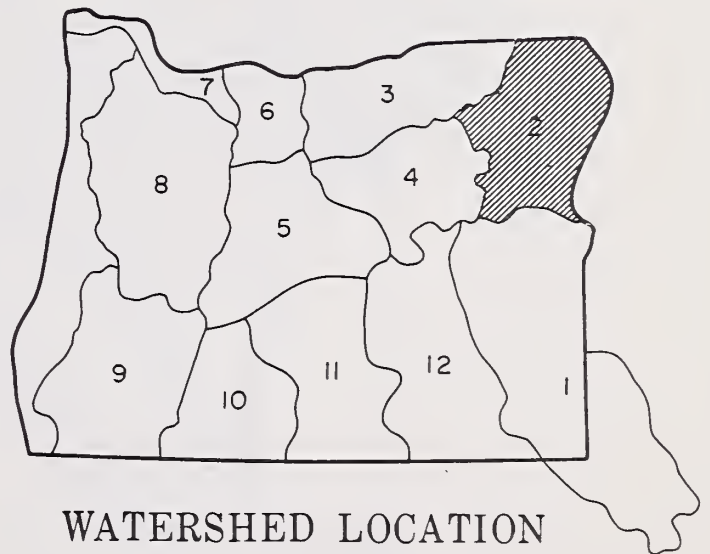
GENERAL OUTLOOK

AVERAGE TO ABOVE AVERAGE WATER SUPPLIES SHOULD BE AVAILABLE IN THE BURNT, POWDER, AND GRANDE RONDE VALLEYS THIS NEXT SPRING AND SUMMER. THE WINTER SNOWPACK, AS MEASURED JANUARY 1, IS EXCELLENT-- TWICE NORMAL ON THE GRANDE RONDE AND POWDER DRAINAGES AND TWO AND ONE-HALF TIMES NORMAL ON THE BURNT. PRECIPITATION THE PAST 3 MONTHS HAS BEEN NEARLY DOUBLE THE USUAL AMOUNTS. SOIL MOISTURE IS VERY GOOD AS A RESULT OF ALL THE HEAVY RAINFALL. RESERVOIR STORAGE IS NEAR THE AVERAGE FOR JANUARY 1. STREAMFLOW ON THE GRANDE RONDE AT LA GRANDE FOR THE OCTOBER-DECEMBER PERIOD WAS 290% OF AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|--|---|-------------|
| | Spring Season | Late Season |
| Alder Slope Baker Valley Big Creek Clover Cr. (nr. N. Powder) Cove Durkee Eagle Valley Elgin Enterprise-Joseph Hereford-Bridgeport Imnaha River LaGrande-Island City Lostine-Wallowa No. Powder River-Wolf Creek Pine Valley Powder River-Elk Creek Summerville Sumpter Valley Union-Hot Lake Unity | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



U.S.D.A. SOIL CONSERVATION SERVICE
 OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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 1218 S.W. WASHINGTON ST.
 PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | | PAST RECORD | |
|-------------------------------------|--------------------|--------------------|-----------------|--------------------|-----------|
| | FORECAST | | FORECAST PERIOD | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average i |
| Bear near Wallowa | c | | | | |
| Burnt near Hereford | c | | | | |
| Catherine near Union | c | | | | |
| Eagle Creek above Skull Creek | c | | | | |
| Grande Ronde at La Grande | c | | | | |
| Hurricane near Joseph | c | | | | |
| Imnaha at Imnaha | c | | | | |
| Lostine near Lostine | c | | | | |
| Powder near Sumpter | c | | | | |
| Wallowa, East Fork near Joseph | c | | | | |

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|---------------|-----------------|----------------|-----------|-------------------|
| | | This Year | Last Year | Average i |
| Phillips Lake | 73.5 | 19.9 | 44.5 | - - |
| Thief Valley | 17.4 | 17.4 | 17.4 | 14.4 ^m |
| Unity | 25.2 | 10.2 | 7.9 | 7.7 |
| Wallowa Lake | 37.5 | 10.3 | 12.9 | 19.9 |

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

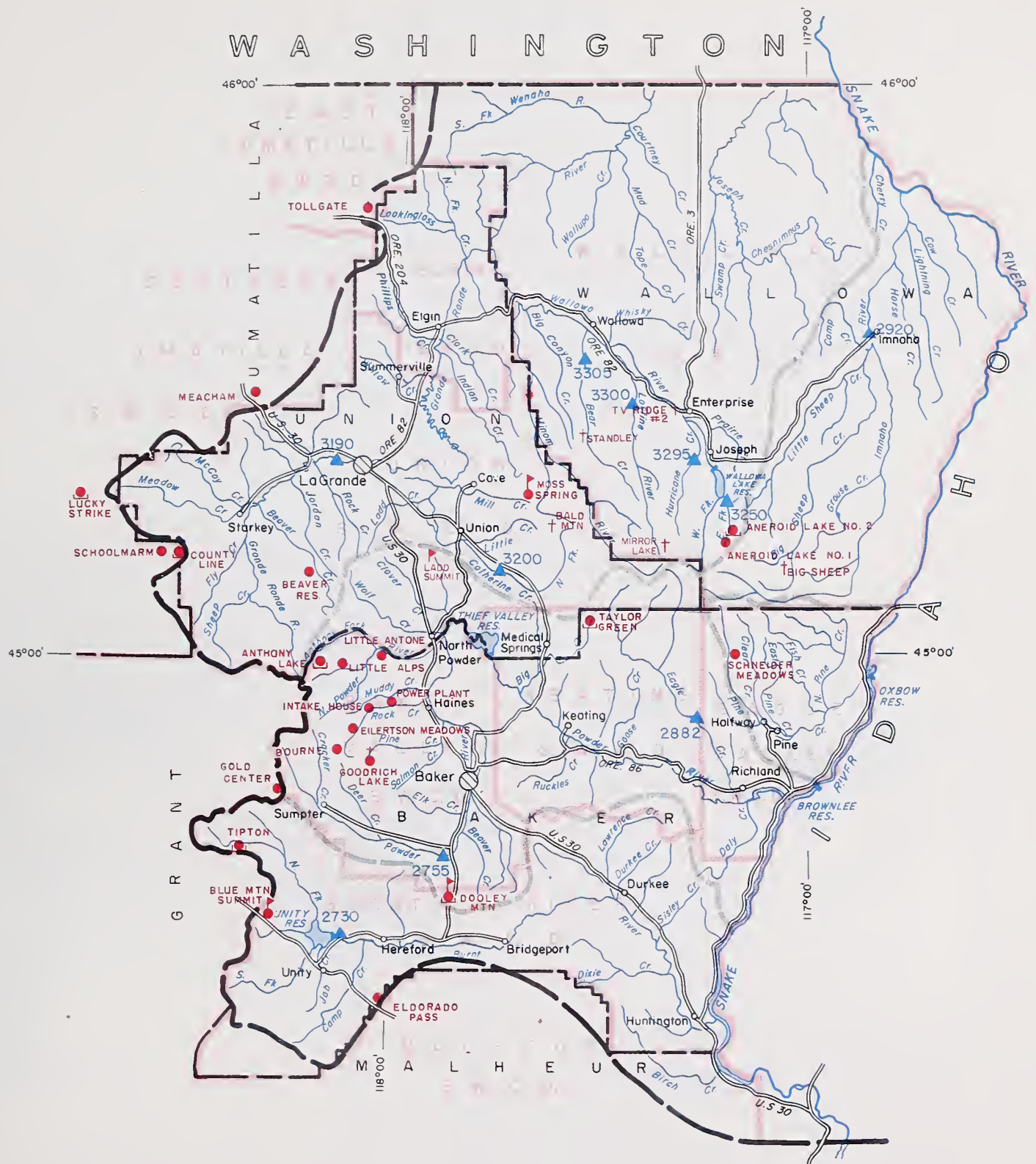
| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|------------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average i |
| Burnt River | 3 | 320 | 245 |
| Grande Ronde River above La Grande | 4 | 645 | 200 |
| Powder River | 2 | 340 | 190 |
| Wallowa, Imnaha, Catherine Creek | - | - | - |

SOIL MOISTURE

| RIVER BASIN | Number of Stations | THIS YEAR'S MOISTURE as PERCENT OF: | |
|---|--------------------|-------------------------------------|-----------|
| | | Last Year | Average i |
| Burnt, Powder Grande Ronde, Catherine Creek, Imnaha River | 2 | 140 | 125 |
| | 2 | 115 | 110 |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Soil Moisture Station
- Aerial Snow Depth Gage
- Precipitation Gage

WATER SUPPLY OUTLOOK

UMATILLA, WALLA WALLA, WILLOW, ROCK,
LOWER JOHN DAY WATERSHEDS
OREGON

as of

JANUARY 1, 1974

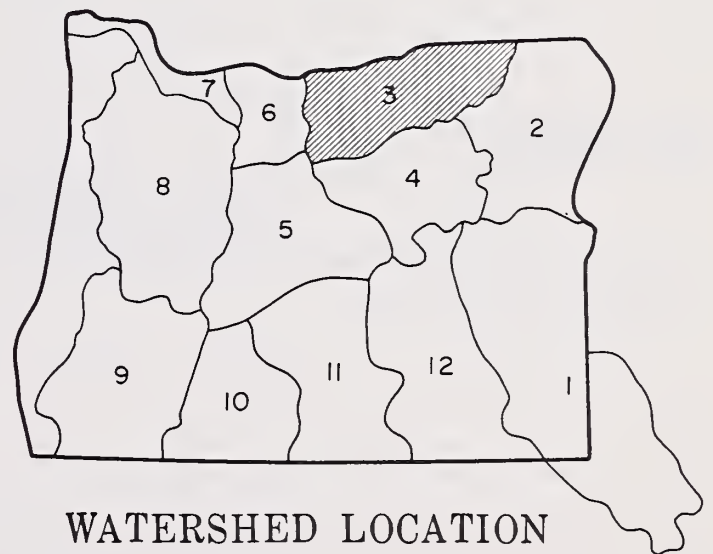
GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR UMATILLA COUNTY WATER USERS THIS NEXT SPRING AND SUMMER. THE SNOWPACK IS NOT AS HEAVY AS IN 1972 BUT IS STILL 300% OF AVERAGE. SOILS UNDER THE SNOWPACK ARE IN A NORMAL CONDITION AS FAR AS MOISTURE IS CONCERNED FOR THIS TIME OF YEAR. PRECIPITATION FOR THE PAST THREE MONTHS HAS BEEN 150 TO 200% OF AVERAGE. RESERVOIRED WATER SUPPLIES IN COLD SPRINGS AND MCKAY ARE VERY GOOD FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|--------------------------------------|---|-------------|
| | Spring Season | Late Season |
| Walla Walla River, No. Fork | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |
| Walla Walla River, So. Fork | | |
| Walla Walla River, Main | | |
| Walla Walla River, Little | | |
| Couse Creek | | |
| Dry Creek | | |
| Pine Creek | | |
| Umatilla River, Main | | |
| Wildhorse Creek | | |
| Umatilla R. (Cold Springs Reservoir) | | |
| Umatilla R. (McKay Res.) | | |
| McKay Creek | | |
| Birch Creek | | |
| Butter Creek | | |
| Willow Creek | | |
| Rhea Creek | | |
| Rock Creek (John Day Tributary) | | |



U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
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1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | FORECAST PERIOD | PAST RECORD | |
|-------------------------------------|--------------------|--------------------|-----------------|--------------------|-----------|
| | FORECAST | | | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average i |
| Birch Creek at Rieth | c | | | | |
| Butter Creek near Pine City | c | | | | |
| McKay near Pilot Rock | c | | | | |
| Umatilla near Gibbon | c | | | | |
| Umatilla at Pendleton | c | | | | |
| Walla Walla, South Fork near Milton | c | | | | |

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| FORECAST POINT | Low Flow Value Second/Ft. | Forecast Date Stream Will Recede to Low Flow Value | Average Date of Low Flow Value |
|-----------------------|---------------------------|---|--------------------------------|
| Umatilla at Pendleton | | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |

| RESERVOIR | Usable Capacity | Usable Storage | | |
|--------------|-----------------|----------------|-----------|-----------|
| | | This Year | Last Year | Average i |
| Cold Springs | 50.0 | 24.1 | 4.3 | 21.6 |
| McKay | 73.8 | 35.8 | 15.1 | 18.3 |

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

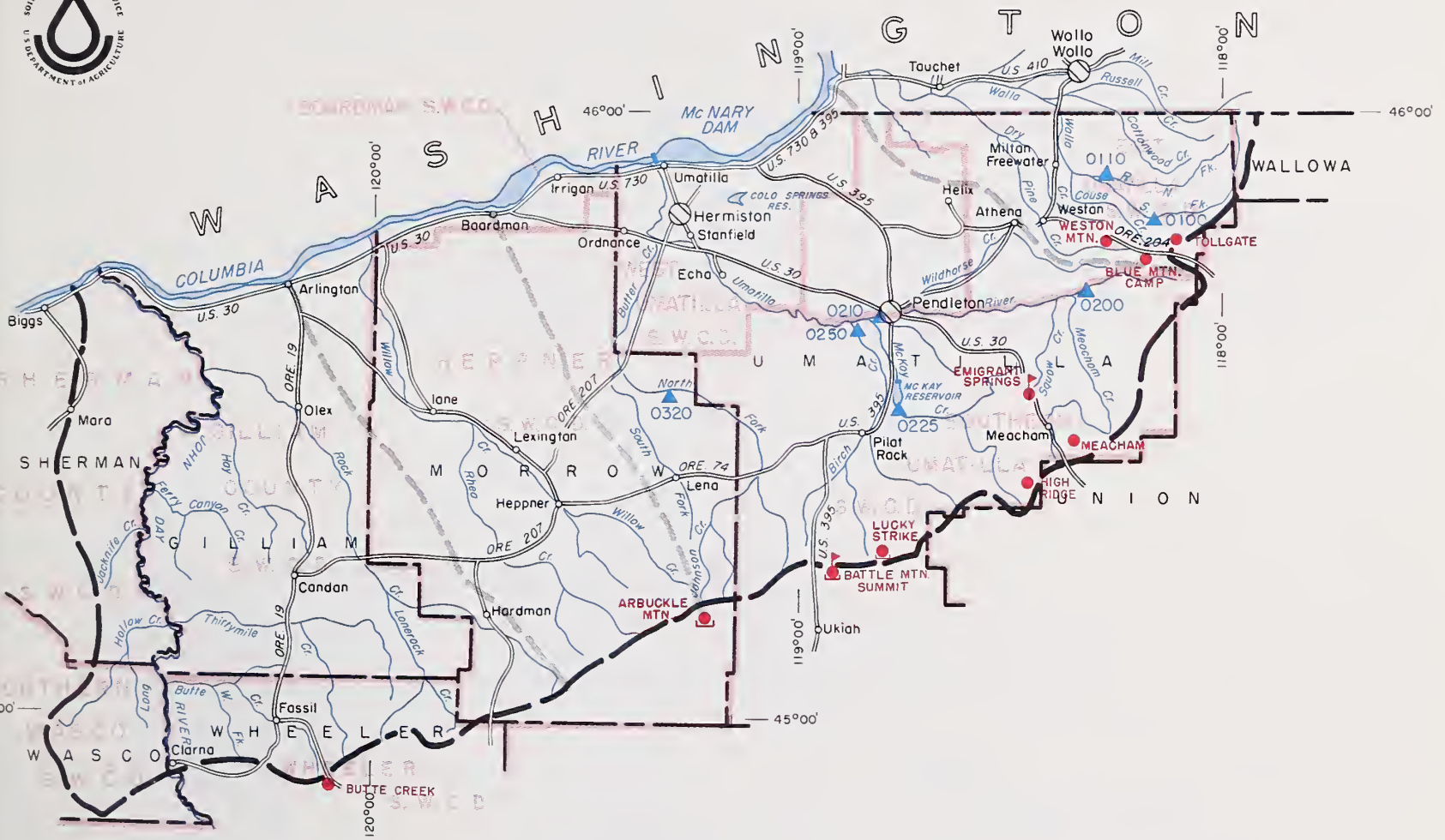
(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN | Number of Stations | THIS YEAR'S MOISTURE as PERCENT OF: | |
|------------------------------------|--------------------|-------------------------------------|-----------|
| | | Last Year | Average i |
| Umatilla, Walla Walla, McKay Creek | 3 | 110 | 100 |


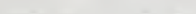
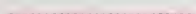





| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average i |
| McKay Creek | 2 | 2915 | 305 |
| Umatilla River | 3 | 600 | 295 |
| Walla Walla River | 2 | 470 | 305 |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS



LEGEND

-  Watershed Boundary
-  Sub-watershed Boundary
-  Soil Conservation District Bdry.
-  County Boundary
-  Forecast Point
-  Snow Course
-  Soil Moisture Station
-  Precipitation Gage

WATER SUPPLY OUTLOOK

UPPER JOHN DAY WATERSHEDS

OREGON

as of
JANUARY 1, 1974

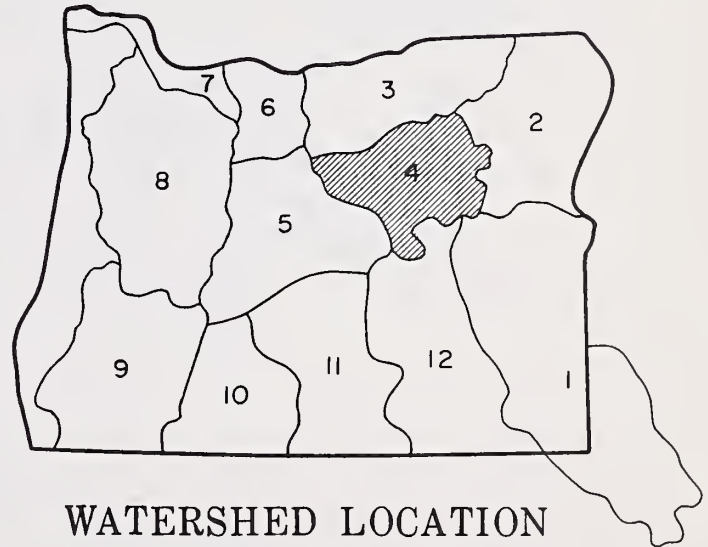
GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE UPPER JOHN DAY BASIN IS EXCELLENT. THE SNOWPACK IS 215% OF AVERAGE FOR JANUARY 1. PRECIPITATION FOR THE PAST THREE MONTHS HAS BEEN 1 1/2 TIMES NORMAL. STREAMFLOW ON THE JOHN DAY AT SERVICE CREEK HAS BEEN 3 TIMES NORMAL FOR THE OCTOBER-DECEMBER PERIOD. ALL CONDITIONS INDICATE VERY GOOD WATER SUPPLIES FOR THE COMING SEASON.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|---|---|-------------|
| | Spring Season | Late Season |
| Beech Creek Beech Creek-Fox-Long Cr. Bridge-Mountain Creeks Camas Creek Cherry Creek Indian-Pine Creeks John Day River, Main Fork John Day River, Mid. Fork John Day River, N. Fork John Day River, S. Fork Monument-Kimberly Strawberry Creek | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



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STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | | PAST RECORD | |
|--|--------------------|--------------------|-----------------|--------------------|----------------------|
| | FORECAST | | FORECAST PERIOD | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average ⁱ |
| Camas Creek near Ukiah | c | | | | |
| John Day at Prairie City | c | | | | |
| John Day, Middle Fork at Ritter | c | | | | |
| John Day, North Fork at Monument | c | | | | |
| Strawberry near Prairie City | c | | | | |
| NOTE: FORECASTS BEGIN ON FEB. 1, 1974. | | | | | |

SOIL MOISTURE

| RIVER BASIN | Number of Stations | THIS YEAR'S MOISTURE as PERCENT OF: | |
|-------------------------|--------------------|-------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| John Day above Dayville | 5 | 140 | 140 |
| John Day, North Fork | c | | |

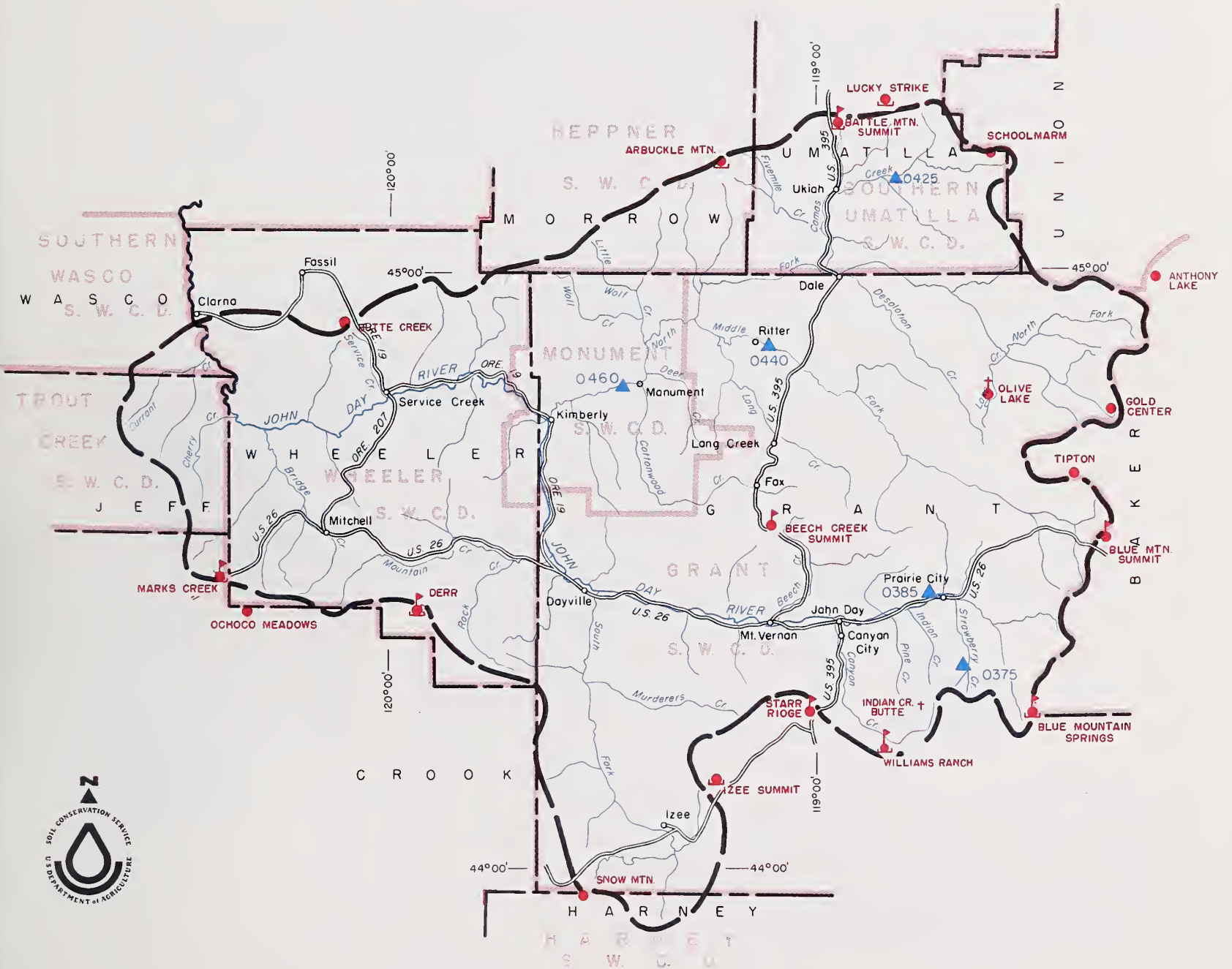
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| John Day, North Fork | 3 | 315 | 215 |
| John Day abv. Dayville | 3 | 260 | 215 |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

UPPER JOHN DAY WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Soil Moisture Station
- Aerial Snow Depth Gage
- Precipitation Gage

Radio Telemetry

WATER SUPPLY OUTLOOK

UPPER DESCHUTES, CROOKED WATERSHEDS

OREGON

as of

JANUARY 1, 1974

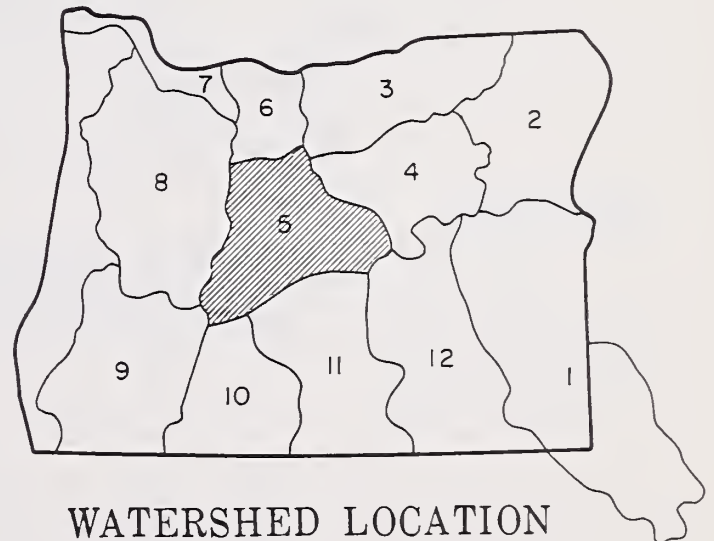
GENERAL OUTLOOK

ABOVE AVERAGE WATER SUPPLIES ARE THE PROSPECT FOR CENTRAL OREGON COUNTIES THIS NEXT SUMMER. STORAGE IN THE FIVE DESCHUTES RESERVOIRS IS NEAR AVERAGE FOR JANUARY 1. THE MOUNTAIN SNOWPACK IS EXCELLENT AND RANGES FROM 125% OF AVERAGE ON THE CROOKED-CHOCO DRAINAGE UP TO 180% OF NORMAL ON THE LITTLE DESCHUTES, AND 220% ON THE DESCHUTES ABOVE WICKIUP RESERVOIR. PRECIPITATION DURING THE PAST 3 MONTHS HAS ALSO BEEN VERY GOOD, NEARLY 1 1/2 TIMES THE NORMAL.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|--|---|-------------|
| | Spring Season | Late Season |
| Arnold Irrigation Dist. Bear Creek Beaver Creek Camp Creek Central Ore. Irrig. Dist. Crooked River Deschutes River Hay-Trout Creeks Lone Pine Irrig. Dist. Mill Creek North Unit Irrig. Dist. Ochoco Creek Sisters Irrigation Dist. Snow Creek Irrig. Dist. Squaw Creek Irrig. Dist. Swalley Ditch Tumalo Project Walker Basin Irrig. Dist. | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



U.S.D.A. SOIL CONSERVATION SERVICE
 OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
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 SOIL CONSERVATION SERVICE
 1218 S.W. WASHINGTON ST.
 PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | FORECAST PERIOD | PAST RECORD | |
|--------------------------------------|--------------------|--------------------|-----------------|--------------------|----------------------|
| | FORECAST | | | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average ⁱ |
| Beaver Creek near Paulina | c | | | | |
| Crane Prairie Reservoir total inflow | c | | | | |
| Crescent at Crescent Lake | c | | | | |
| Crooked near Post | c | | | | |
| Deschutes at Benham Falls | c | | | | |
| Deschutes below Snow Creek | c | | | | |
| Deschutes, Little near La Pine | c | | | | |
| Ochoco Reservoir net Inflow | c | | | | |
| Odell near Crescent | c | | | | |
| Squaw near Sisters | c | | | | |
| Tumalo near Bend | c | | | | |

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

| FORECAST POINT | Low Flow Value Second/Ft. | Forecast Date Stream Will Recede to Low Flow Value | Average Date of Low Flow Value |
|-------------------------------|---------------------------|--|--------------------------------|
| Crane Prairie net Inflow | | | |
| Crooked R. near Post | | | |
| Deschutes at Bend | | | |
| Little Deschutes near La Pine | | | |

Forecasts begin in the February 1 report which will be issued about February 8, 1974.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|---------------|-----------------|----------------|-----------|----------------------|
| | | This Year | Last Year | Average ⁱ |
| Crane Prairie | 55.3 | 31.3 | 51.0 | 38.1 |
| Crescent Lake | 86.9 | 68.2 | 76.3 | 42.2 |
| Ochoco | 47.5 | 18.0 | 25.0 | 17.5 |
| Prineville | 153.0 | 91.5 | 106.1 | 98.5 ^m |
| Wickiup | 200.0 | 101.5 | 177.6 | 121.2 |

SOIL MOISTURE

| RIVER BASIN | Number of Stations | THIS YEAR'S MOISTURE as PERCENT OF: | |
|-----------------------------------|--------------------|-------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| Crooked R., Upper Deschutes River | 1 | 130 | 130 |

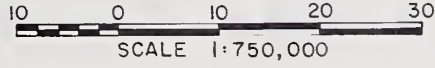
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| Crooked, Ochoco | 1 | - | 126 |
| Deschutes abv. Wickiup | 1 | 335 | 225 |
| Little Deschutes | 2 | 335 | 185 |
| Tumalo & Squaw Creeks | 2 | 360 | 210 |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

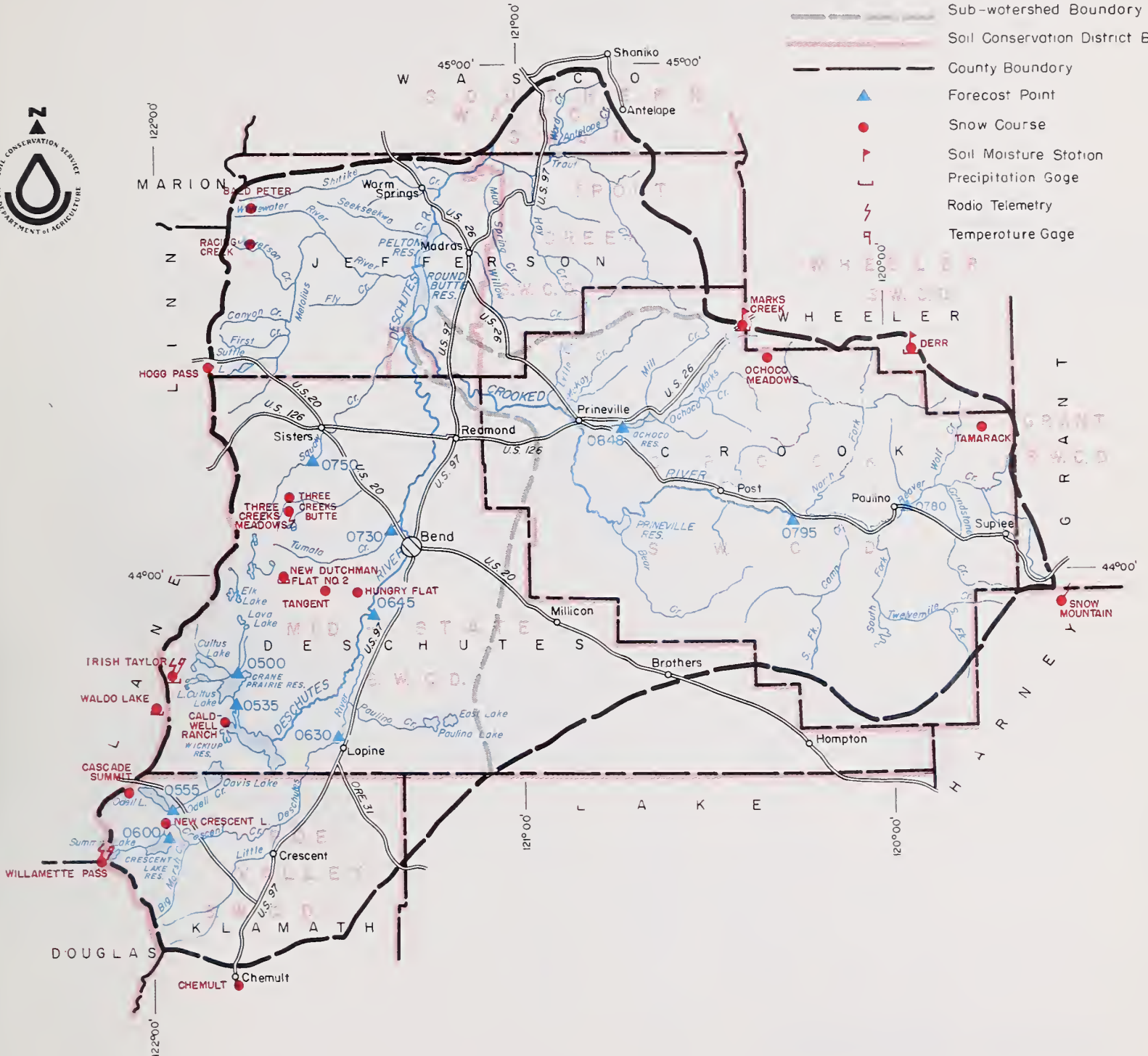
UPPER DESCHUTES, CROOKED WATERSHEDS



SCALE 1:1,500,000

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Soil Moisture Station
- Precipitation Gage
- Radio Telemetry
- Temperature Gage



WATER SUPPLY OUTLOOK

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

as of
JANUARY 1, 1974

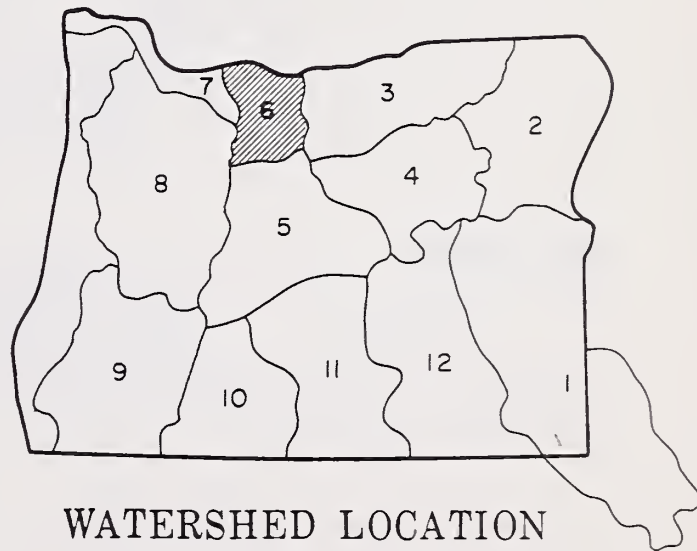
GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR HOOD RIVER AND WASCO COUNTIES. THE SNOWPACK IS MUCH ABOVE AVERAGE, ALMOST TWICE THE NORMAL FOR JANUARY 1. PRECIPITATION DURING THE PAST THREE MONTHS WAS 150 TO 200 PERCENT OF AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|---|---|-------------|
| | Spring Season | Late Season |
| Aldridge Ditch (Tony Creek) Badger Creek Dee Irrigation Dist. East Fork Irrig. Dist. Farmers Irrigation Dist. Hood River Irrig. Dist. Juniper Flat Middle Fork Irrig. Dist. Mile Creeks Mill Creek Mount Hood Irrig. Dist. Rock-Gate-Threemile Crs. Tygh Creek White River | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



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 1218 S.W. WASHINGTON ST.
 PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | FORECAST PERIOD | PAST RECORD | |
|--|--------------------|--------------------|-----------------|--------------------|--|
| | FORECAST | | | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | Last Year | Average i | |
| Hood River near Tucker Bridge Hood, West Fork near Dee White below Tygh Valley | c | | | | |
| | c | | | | |
| | c | | | | |

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

| FORECAST POINT | Low Flow Value Second/Ft. | Forecast Date Stream Will Recede to Low Flow Value | Average Date of Low Flow Value |
|---------------------|---------------------------|---|--------------------------------|
| Clear Branch Inflow | | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|--------------------|-----------------|----------------|-----------|-----------|
| | | This Year | Last Year | Average i |
| Clear Lake (Wasco) | 11.9 | 1.0 | 7.2 | 1.5 |

SOIL MOISTURE

| RIVER BASIN | Number of Stations | THIS YEAR'S MOISTURE as PERCENT OF: | |
|-------------------------|--------------------|-------------------------------------|-----------|
| | | Last Year | Average i |
| Hood River, Mile Creeks | 1 | 100 | - |

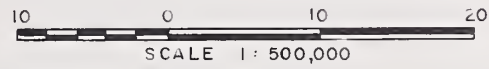
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average i |
| Hood River | 4 | 515 | 170 |
| Mile Creeks | - | - | - |
| White River | 3 | 440 | 195 |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- Soil Moisture Station
- Precipitation Gage
- Temperature Gage
- Radio Telemetry

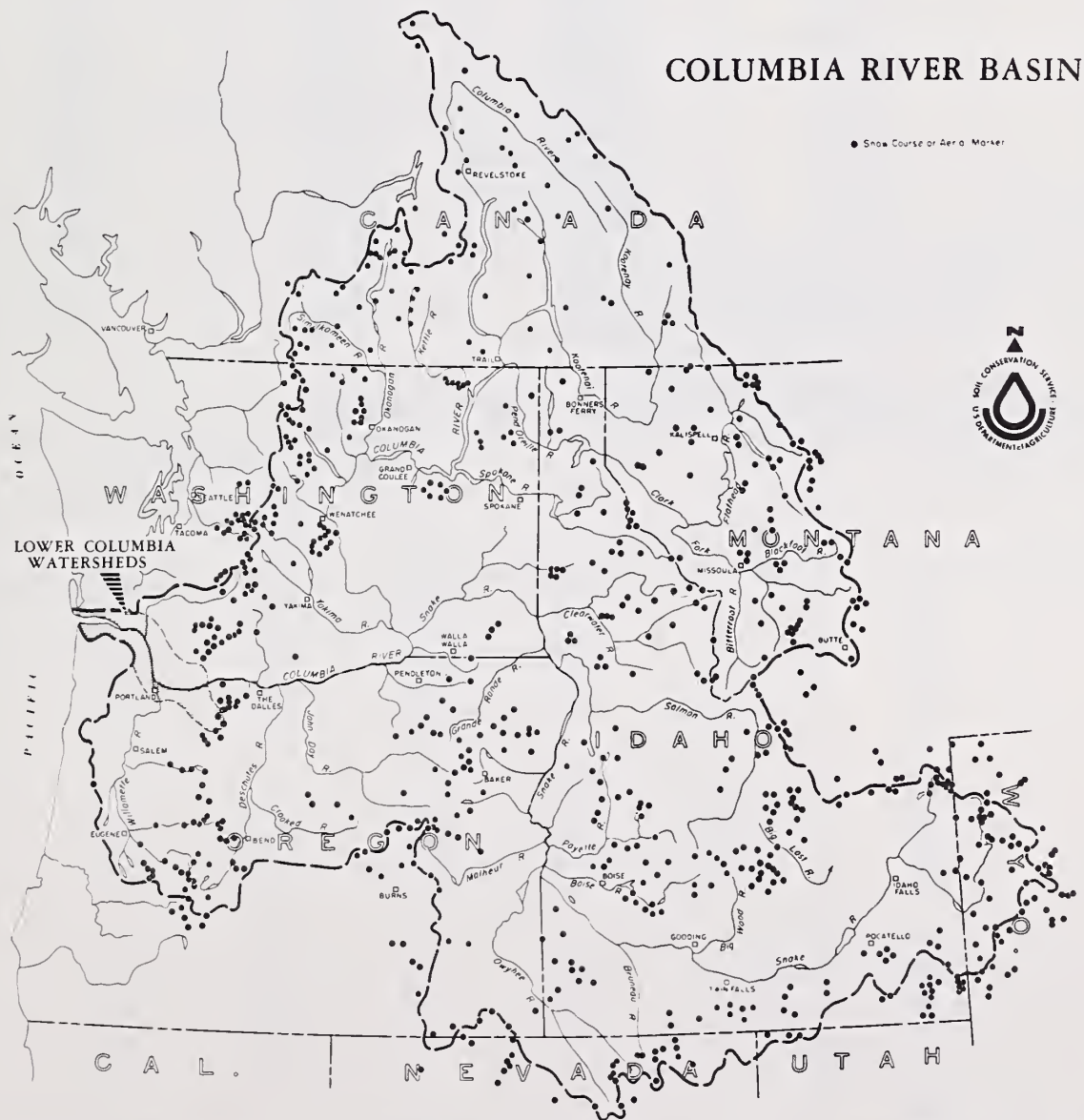
WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

as of

JANUARY 1, 1974

GENERAL OUTLOOK

WATER SUPPLIES ALONG THE COLUMBIA THIS NEXT SPRING AND SUMMER SHOULD BE ABOVE AVERAGE. EARLY SEASON SNOW SURVEYS INDICATE AN AVERAGE TO WELL ABOVE AVERAGE SNOWPACK IN THE BASIN. HEAVIEST AMOUNTS OF SNOW COVER THE TRIBUTARY STREAMS IN OREGON, WASHINGTON SOUTH CENTRAL IDAHO AND THE UPPER OWYHEE IN NEVADA. IN THESE AREAS IT RANGES GENERALLY FROM 160 TO 200% OF AVERAGE WITH AN AREA IN NORTHEASTERN OREGON 3 TIMES THE NORMAL. NEAR AVERAGE TO SLIGHTLY BELOW AVERAGE SNOW COVER EXISTS IN SOUTHWESTERN AND NORTHERN IDAHO, WESTERN MONTANA, AND WYOMING. CANADIAN TRIBUTARIES HAVE A SNOWPACK GENERALLY ABOVE AVERAGE.



U.S.D.A. SOIL CONSERVATION SERVICE
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1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|--|----------------------------------|---|------------------------|
| | | Last Year | Average ⁽ⁱ⁾ |
| Sandy River | 2 | 395 | 190 |

STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | | PAST RECORD | |
|---------------------------------------|-----------------------|-----------------------|--|--------------------|------------------------|
| | FORECAST | | FORECAST PERIOD | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average ⁽ⁱ⁾ |
| Columbia at The Dalles ^(d) | c | | | | |
| Sandy River near Marmot | c | | NOTE: FORECASTS BEGIN ON FEB. 1, 1974. | | |

HISTORICAL DATA (Columbia River at The Dalles)

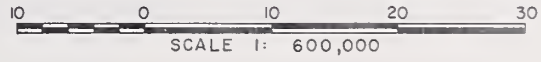
| YEAR | STREAMFLOW ^(d) (1,000 A.F.) | | | PEAK ^(e) (1,000 c.f.s) | DATE |
|--------------|--|-------------|------------|--------------------------------------|---------|
| | APR. - SEPT. | APR. - JUNE | MAY - JUNE | | |
| 1953 | 100,600 | 64,900 | 55,800 | 609 | June 17 |
| 1954 | 119,500 | 70,500 | 59,300 | 561 | May 23 |
| 1955 | 99,500 | 58,300 | 50,300 | 545 | June 26 |
| 1956 | 131,400 | 96,900 | 75,800 | 815 | June 3 |
| 1957 | 105,700 | 80,500 | 67,200 | 700 | May 22 |
| 1958 | 97,700 | 72,000 | 58,600 | 593 | May 31 |
| 1959 | 112,500 | 71,900 | 58,900 | 555 | June 23 |
| 1960 | 97,000 | 64,000 | 48,000 | 442 | June 6 |
| 1961 | 101,400 | 74,400 | 64,000 | 699 | June 8 |
| 1962 | 94,600 | 64,100 | 49,200 | 460 | June 5 |
| 1963 | 87,000 | 56,300 | 46,200 | 437 | June 18 |
| 1964 | 109,020 | 70,739 | 61,313 | 662 | June 18 |
| 1965 | 114,137 | 80,024 | 62,477 | 520 | June 9 |
| 1966 | 87,268 | 58,120 | 45,922 | 396 | June 12 |
| 1967 | 107,771 | 72,408 | 65,112 | 622 | June 10 |
| 1953-67 Avg. | 105,181 | 72,408 | 59,689 | 574 | |

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)










| VANCOUVER GAGE (Weather Bu.) | FLOW AT THE DALLES (1,000 c.f.s) | DRAINAGE DISTRICT PUMPHOUSE | | | | | | |
|------------------------------------|--|-----------------------------|-------------|-----------|-----------|---------|--------|---------|
| | | SANDY | SAUVIE ISL. | SCAPPOOSE | DEER ISL. | RAINIER | BEAVER | WOODSON |
| | | RIVER MILES | | | | | | |
| | | 118.9 | 96.0 | 91.0 | 77.0 | 62.0 | 52.0 | 47.0 |
| 35 (1894) | 1210 | 41.2 | 34.2 | 33.3 | 28.5 | 21.9 | 17.5 | 15.5 |
| 34 | 1160 | 40.5 | 33.5 | 32.5 | 27.7 | 21.2 | 17.0 | 15.0 |
| 33 | 1100 | 39.6 | 32.4 | 31.4 | 26.7 | 20.2 | 16.1 | 14.3 |
| 32 | 1050 | 38.9 | 31.5 | 30.5 | 25.7 | 19.5 | 15.4 | 13.7 |
| 31 (1948) | 1000 | 38.0 | 30.7 | 29.5 | 25.1 | 18.8 | 14.7 | 13.0 |
| 30 | 943 | 36.6 | 29.5 | 28.5 | 24.3 | 18.1 | 14.0 | 12.4 |
| 29 | 897 | 35.5 | 28.5 | 27.7 | 23.7 | 17.5 | 13.4 | 11.8 |
| 28 | 853 | 34.3 | 27.5 | 26.7 | 22.8 | 17.0 | 13.0 | 11.4 |
| 27 (1956) | 811 | 33.0 | 26.5 | 25.6 | 21.8 | 16.2 | 12.5 | 11.0 |
| 26 (1950) | 771 | 32.1 | 25.5 | 24.6 | 20.9 | 15.5 | 12.2 | 10.7 |
| 25 | 733 | 30.7 | 24.2 | 23.2 | 19.7 | 14.6 | 11.7 | 10.3 |
| 24 | 697 | 29.7 | 23.0 | 22.2 | 19.0 | 14.1 | 11.4 | 10.2 |
| 23 | 662 | 29.0 | 22.3 | 21.4 | 18.4 | 13.6 | 11.2 | 10.0 |
| 22 | 628 | 28.1 | 21.4 | 20.3 | 17.2 | 13.0 | 10.9 | 9.7 |
| 21 | 595 | 27.2 | 20.7 | 19.5 | 16.4 | 12.6 | 10.6 | 9.6 |
| 20 (1954) | 564 | 26.2 | 19.8 | 18.6 | 15.5 | 12.1 | 10.2 | 9.4 |
| 19 | 534 | 25.5 | 19.2 | 18.0 | 15.0 | 11.8 | 10.0 | 9.3 |
| 18 | 501 | 24.4 | 18.3 | 17.2 | 14.3 | 11.4 | 9.8 | 9.1 |
| 17 | 479 | 23.4 | 17.4 | 16.4 | 13.7 | 11.0 | 9.6 | 8.9 |
| 16 | 452 | 22.4 | 16.5 | 15.5 | 13.0 | 10.5 | 9.3 | 8.7 |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USSR records.

LOWER COLUMBIA WATERSHEDS



LEGEND

-  Watershed Boundary
-  Sub-watershed Boundary
-  Soil Conservation District Bdry.
-  County Boundary
-  River Miles
-  Snow Course
-  Temperature
-  Radio Telemetry
-  Forecast Point

WATER SUPPLY OUTLOOK

WILLAMETTE WATERSHEDS

OREGON

as of

JANUARY 1, 1974

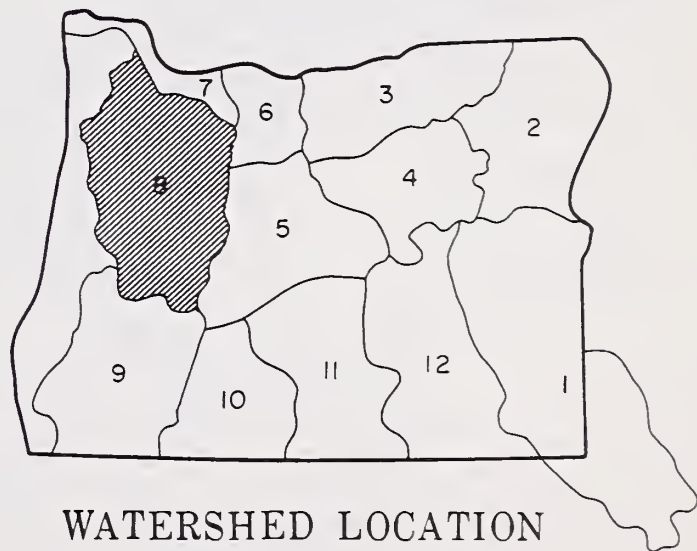
GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES SHOULD BE AVAILABLE THIS NEXT SPRING AND SUMMER FOR WILLAMETTE BASIN WATER USERS. THE CASCADE MOUNTAIN SNOWPACK IS MUCH ABOVE AVERAGE. IT RANGES FROM 2 1/2 TIMES NORMAL ON THE CLACKAMAS TO 180% OF AVERAGE ON THE MCKENZIE AND THE MIDDLE FORK OF THE WILLAMETTE. PRECIPITATION DURING DECEMBER WAS 120 TO 180% OF NORMAL. THIS CONTINUED THE TREND STARTED IN OCTOBER. THE PAST THREE MONTHS HAS PROVIDED PRECIPITATION 1 1/2 TO 2 TIMES NORMAL. MOST OF THE FLOOD-CONTROL RESERVOIRS ARE HOLDING BETTER THAN AVERAGE AMOUNTS OF WATER AVAILABLE FOR SUMMER IRRIGATION PURPOSES. STREAMFLOW FOR THE OCTOBER-DECEMBER PERIOD ON THE MIDDLE FORK OF THE WILLAMETTE HAS BEEN AN EXCELLENT 200% OF AVERAGE.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|--|---|-------------|
| | Spring Season | Late Season |
| Calapooya Clackamas McKenzie Molalla Santiam, North Santiam, South Willamette, Coast Fork Willamette, Middle Fork | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



U.S.D.A. SOIL CONSERVATION SERVICE
 OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | | PAST RECORD | |
|---|--------------------|--------------------|-----------------|--------------------|----------------------|
| | FORECAST | | FORECAST PERIOD | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average ^l |
| Clackamas at Estacada | c | | | | |
| Clackamas above Three Lynx | c | | | | |
| McKenzie at McKenzie Bridge | c | | | | |
| McKenzie near Vida | c | | | | |
| McKenzie, South Fork near Rainbow | c | | | | |
| Oak Grove Fork above Power Intake | c | | | | |
| Row near Dorena | c | | | | |
| Santiam, North at Mehama | c | | | | |
| Santiam, South at Waterloo | c | | | | |
| Willamette, Mid. Fk. blw. N. Fk. nr Oakridge | c | | | | |
| Willamette, No. Fk. of Mid. Fk. near Oakridge | c | | | | |
| Willamette at Salem | c | | | | |

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| Clackamas River | 2 | 2350 | 260 |
| McKenzie River | 3 | 400 | 180 |
| Row River | 2 | 865 | 210 |
| Santiam River | 4 | 680 | 215 |
| Willamette, Mid. Fk. | 3 | 395 | 180 |

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|---------------|-----------------|----------------|-----------|----------------------|
| | | This Year | Last Year | Average ^l |
| Blue River | 85.6* | 6.2 | 0.0 | - - |
| Cottage Grove | 30.0* | 0.0 | 0.0 | 1.4 |
| Cougar | 155.2* | 18.7 | 4.2 | 14.4 ^m |
| Detroit | 299.9* | 110.4 | 46.2 | 25.3 |
| Dorena | 70.5* | 4.9 | 0.0 | 6.6 |
| Fall Creek | 115.0* | 0.0 | 0.0 | 0.0 ^m |
| Fern Ridge | 94.2* | 0.0 | 0.0 | 10.4 |
| Foster | 30.0* | 0.1 | 0.0 | 1.1 ^m |
| Green Peter | 270.0* | 94.9 | 54.9 | 6.6 ^m |
| Hills Creek | 200.0* | 28.6 | 2.6 | 15.9 ^m |
| Lookout Point | 337.2* | 78.5 | 2.2 | 34.4 |
| Timothy Lake | 61.7 | 61.7 | 53.7 | 49.1 |

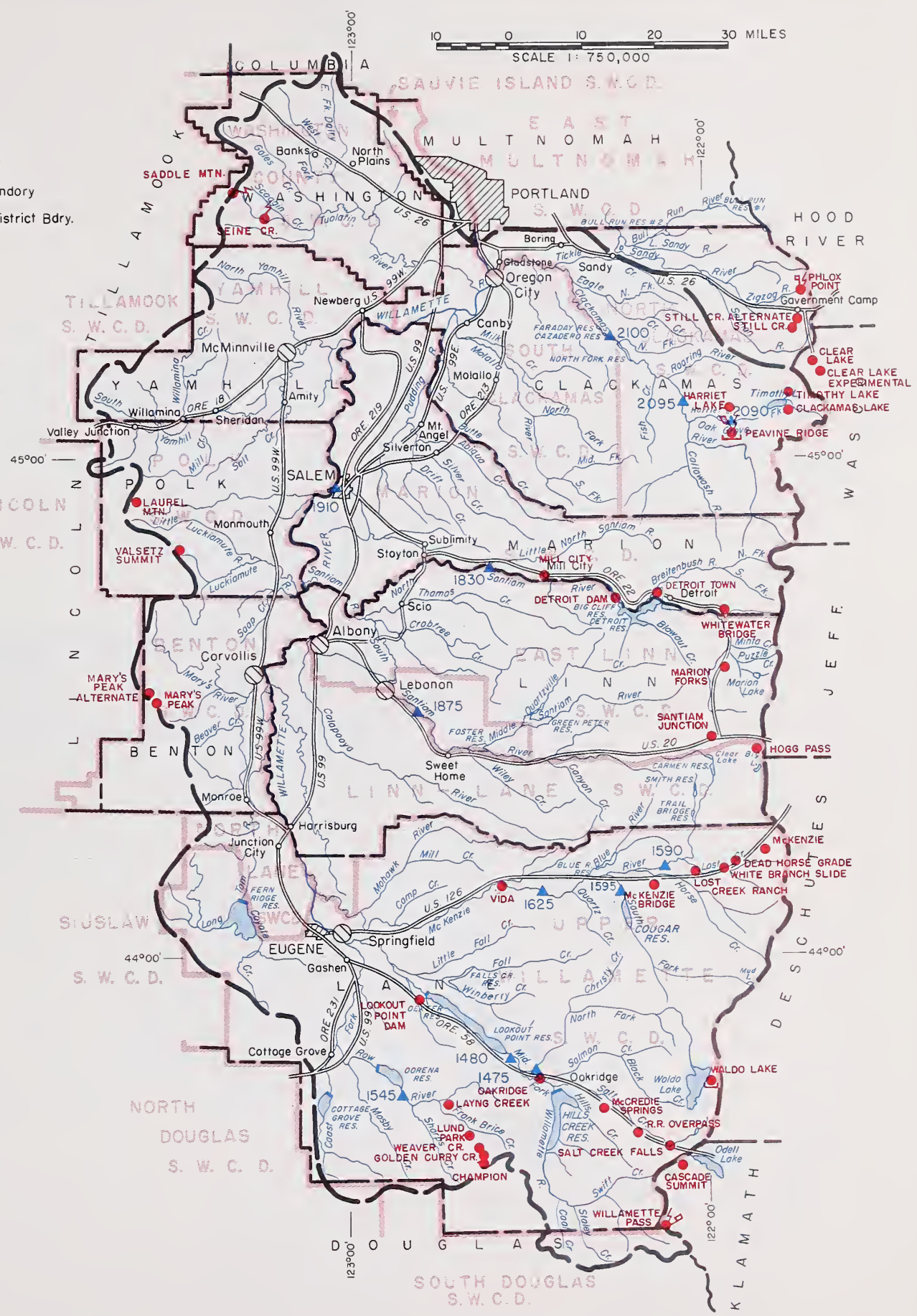
*Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WILLAMETTE WATERSHEDS

LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- ⚡ Radio Telemetry
- L Precipitation Gage
- 9 Temperature Gage



WATER SUPPLY OUTLOOK

ROGUE, UMPQUA, WATERSHEDS

OREGON

as of

JANUARY 1, 1974

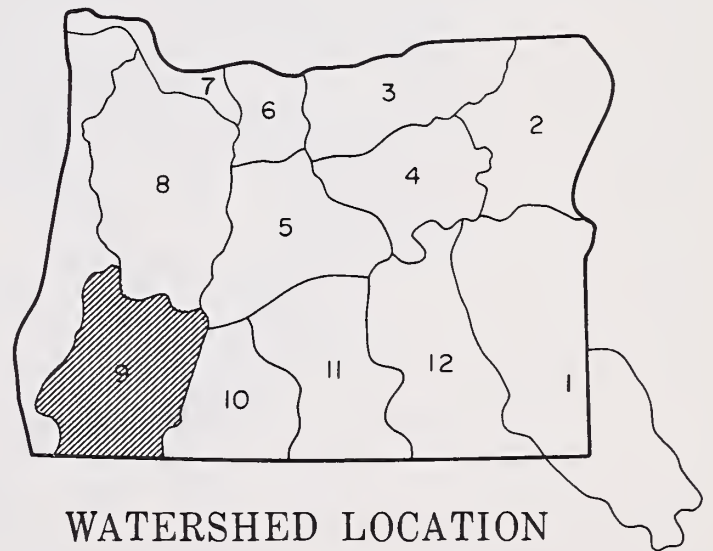
GENERAL OUTLOOK

THE ROGUE AND UMPQUA RIVER BASINS SHOULD HAVE EXCELLENT WATER SUPPLIES AVAILABLE NEXT SPRING AND SUMMER. THE CASCADE MOUNTAIN SNOWPACK IS WELL ABOVE AVERAGE. IT RANGES FROM 160% OF AVERAGE ON THE BUTTE CREEKS ON UP TO 200% OF NORMAL ON THE NORTH UMPQUA. ONE LOW ELEVATION COURSE ON BEAR CREEK ONLY HAD 1/3 OF THE NORMAL SNOW FOR JANUARY 1, BUT THE PACK IS BETTER AT HIGHER ELEVATIONS ON THE WATERSHED. PRECIPITATION HAS BEEN EXCELLENT FOR THE PAST THREE MONTHS. THE ROGUE AT RAYGOLD AND THE UMPQUA AT ELKTON HAVE BOTH PROVIDED WELL ABOVE AVERAGE FLOWS FOR THE OCT.-DEC. PERIOD. RESERVOIR STORAGE IS NEAR AVERAGE AND LOOKS GOOD CONSIDERING THE DRY YEAR THAT WE JUST EXPERIENCED.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|--|---|-------------|
| | Spring Season | Late Season |
| Althouse Creek Applegate River, Big Applegate River, Little Ashland Creek Butte Creek, Big Butte Creek, Little Cow Creek Deer Creek Elk Creek Emigrant Creek (abv. Res.) Evans Creek Gold Hill Irrigation Dist. Grants Pass Irrig. Dist. Grave Creek Illinois River, East Fork Illinois River, West Fork Jump-off-Joe Creek Neil Creek Red Blanket Creek Rogue River Sucker Creek Table Rock Irrig. Dist. Thompson Creek Wagner Creek Williams Creek | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



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 OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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 SOIL CONSERVATION SERVICE
 1218 S.W. WASHINGTON ST.
 PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | PAST RECORD | | |
|--|--------------------|--------------------|-----------------|--------------------|-----------|
| | FORECAST | | FORECAST PERIOD | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average i |
| Applegate near Copper | c | | | | |
| Clearwater above Trap Creek | c | | | | |
| Fourmile Lake net Inflow | c | | | | |
| Hyatt Reservoir net Inflow | c | | | | |
| Illinois River near Kerby | c | | | | |
| Little Butte, N. Fk. at Fish Lake nr. Lake Cr. | c | | | | |
| Little Butte, S. Fk. near Lake Creek | c | | | | |
| Rogue above Prospect | c | | | | |
| Rogue, South Fork near Prospect | c | | | | |
| Rogue at Raygold near Central Point | c | | | | |
| Rogue at Grants Pass | c | | | | |
| Umpqua, No. blw. Lemolo Res. nr. Toketee Falls | c | | | | |

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

FORECAST DATE of LOW FLOW VALUES

| FORECAST POINT | Low Flow Value Second/Ft. | Forecast Date Stream Will Recede to Low Flow Value | Average Date of Low Flow Value |
|--|---------------------------|---|--------------------------------|
| Little Butte Creek, South Fork Rogue at Raygold | | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|----------------|-----------------|----------------|-----------|-------------------|
| | | This Year | Last Year | Average i |
| Emigrant Lake | 39.0 | 20.8 | 16.6 | 18.0* |
| Fish Lake | 8.0 | 4.2 | 8.1 | 5.0 |
| Fourmile Lake | 16.1 | 5.8 | - | 7.7 |
| Howard Prairie | 60.0 | 42.7 | 44.3 | 35.3 ^m |
| Hyatt Prairie | 16.1 | 10.8 | 8.6 | 9.8 |

*Average for years of record (in base period) after reconstruction.

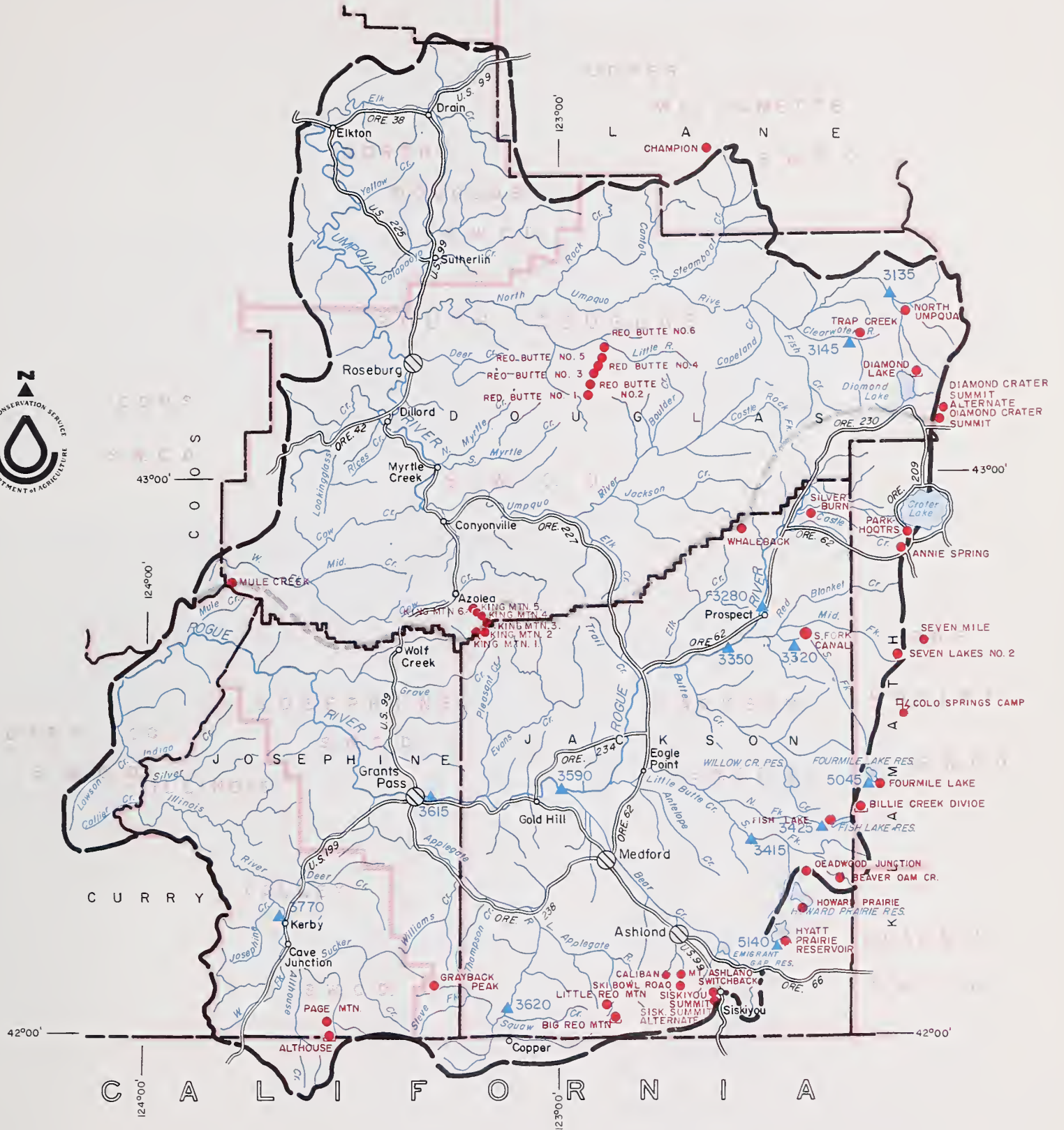
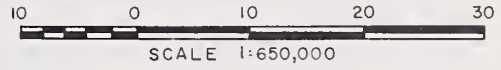
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average i |
| Applegate | - | - | - |
| Bear Creek | 1 | - | 32 |
| Butte Creek | 4 | 215 | 160 |
| Illinois River | - | - | - |
| North Umpqua | 3 | 395 | 210 |
| Rogue River | 3 | 260 | 175 |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

ROGUE, UMPQUA WATERSHEDS



LEGEND

- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Precipitation Gage
- Radio Telemetry
- Temperature Gage

WATER SUPPLY OUTLOOK

KLAMATH WATERSHEDS

OREGON

as of

JANUARY 1, 1974

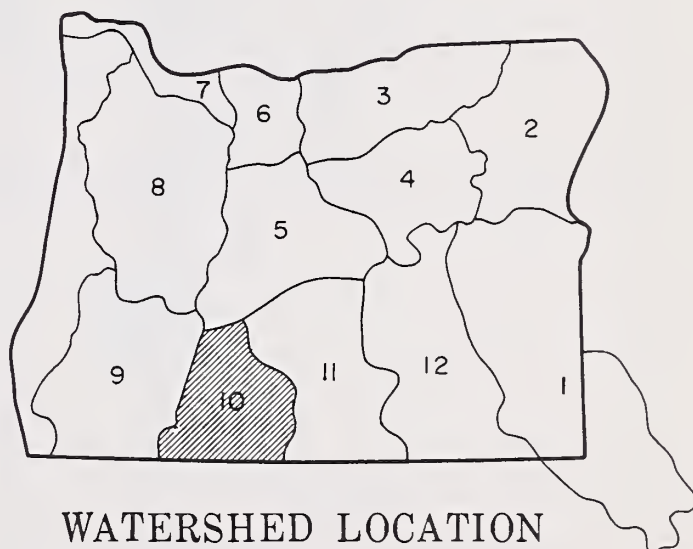
GENERAL OUTLOOK

KLAMATH COUNTY WATER USERS WILL HAVE AVERAGE TO WELL ABOVE AVERAGE WATER SUPPLIES NEXT SPRING AND SUMMER. THE SNOWPACK IN THE CASCADES IS NEARLY DOUBLE THE NORMAL FOR JANUARY 1. AVERAGE AMOUNTS OF SNOW EXIST IN THE EASTERN AREAS OF THE COUNTY ON THE SPRAGUE AND LOST RIVERS. PRECIPITATION HAS GENERALLY BEEN ABOVE AVERAGE DURING THE OCTOBER-DECEMBER PERIOD. ALL THREE MAJOR RESERVOIRS IN THE COUNTY CONTAIN ABOVE AVERAGE AMOUNTS OF WATER FOR JANUARY 1. THE INFLOW TO KLAMATH LAKE HAS BEEN 140% OF AVERAGE DURING THE PAST THREE MONTHS.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|---|---|-------------|
| | Spring Season | Late Season |
| Ft. Klamath Valley Lost River (Clear Lake) Lost River (Gerber) Lost River (Willow Res.) Sprague River Upper Klamath Lake Williamson River | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



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 PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | FORECAST PERIOD | PAST RECORD | |
|--|--------------------|--------------------|-----------------|--------------------|----------------------|
| | FORECAST | | | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average ⁱ |
| Clear Lake Reservoir Inflow | c | | | | |
| Gerber Reservoir Inflow | c | | | | |
| Sprague near Chiloquin | c | | | | |
| Upper Klamath Lake net Inflow ^k | c | | | | |
| Williamson below Sprague River | c | | | | |

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

SOIL MOISTURE

| RIVER BASIN | Number of Stations | THIS YEAR'S MOISTURE as PERCENT OF: | |
|---------------|--------------------|-------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| Upper Klamath | 1 | 110 | 85 |

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|--------------------|-----------------|----------------|-----------|----------------------|
| | | This Year | Last Year | Average ⁱ |
| Clear Lake | 440.2 | 257.1 | 289.5 | 188.4 |
| Gerber | 94.0 | 42.3 | 51.3 | 37.9 |
| Upper Klamath Lake | 584.0 | 428.2 | 395.2 | 341.3 |

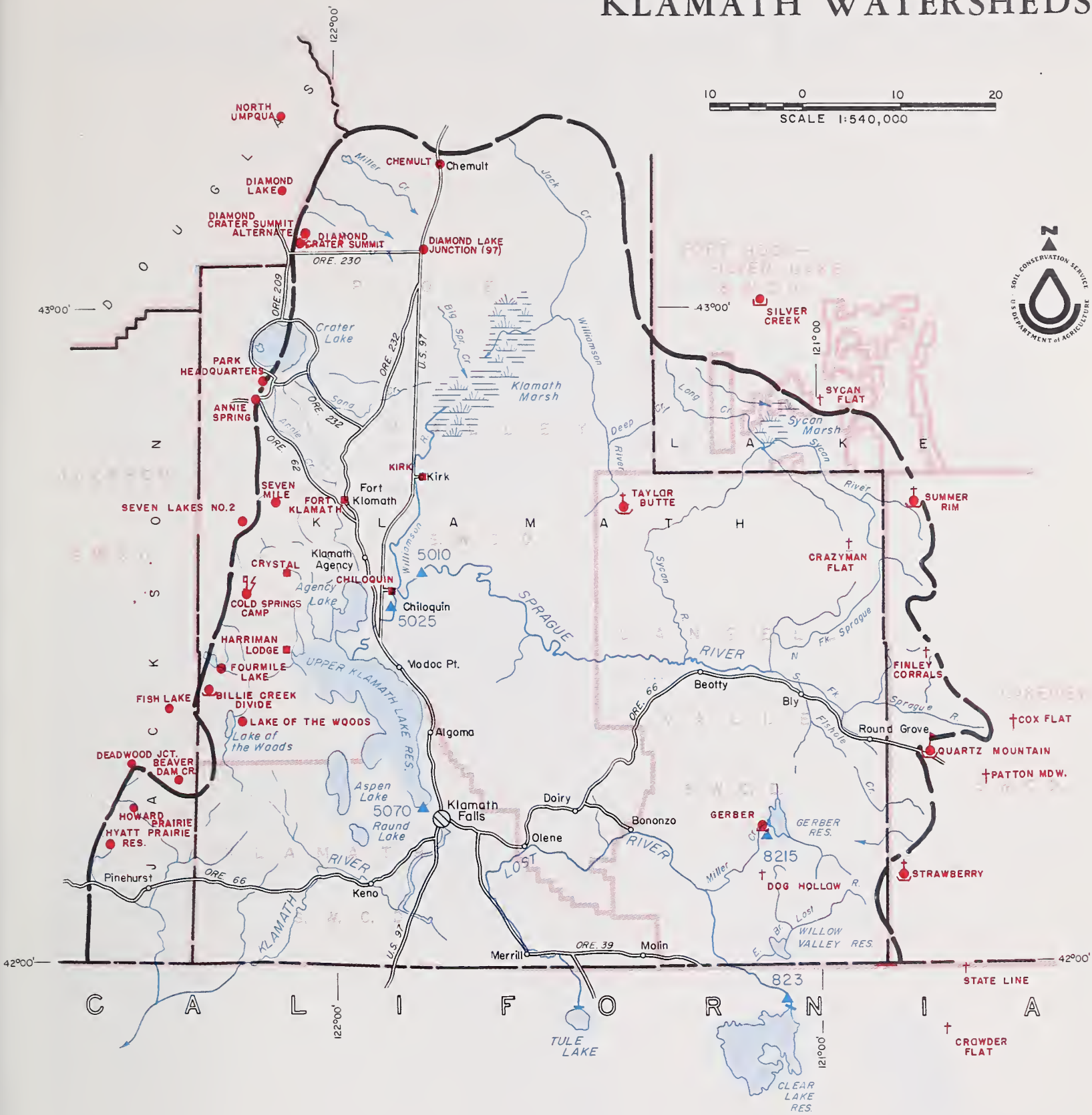
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

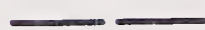

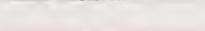
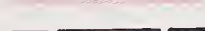








| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| Lost River | 1 | - | 90 |
| Sprague River | 2 | 315 | 95 |
| Upper Klamath | 7 | 270 | 150 |
| Williamson River | 3 | 390 | 190 |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

KLAMATH WATERSHEDS



LEGEND

-  Watershed Boundary
-  Sub-watershed Boundary
-  Soil Conservation District Bdry.
-  County Boundary
-  Forecast Point
-  Snow Course
-  Aerial Snow Depth Gage
-  PP&L Snow Station
-  Soil Moisture Station
-  Precipitation Gage
-  Radio Telemetry
-  Temperature Gage

WATER SUPPLY OUTLOOK

LAKE COUNTY, GOOSE LAKE WATERSHEDS

OREGON

as of

JANUARY 1, 1974

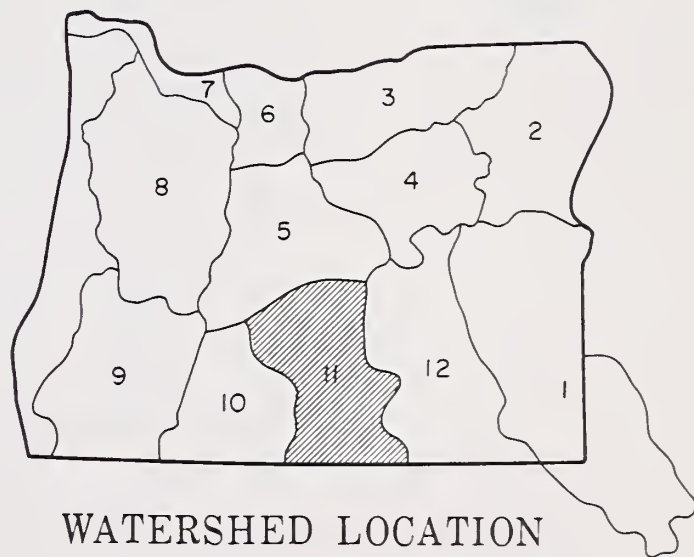
GENERAL OUTLOOK

LAKE COUNTY SHOULD EXPERIENCE NEAR AVERAGE WATER SUPPLIES NEXT SPRING AND SUMMER. THE MOUNTAIN SNOWPACK IS GENERALLY NEAR AVERAGE. A MORE COMPLETE PICTURE WILL BE AVAILABLE NEXT MONTH WHEN ALL SNOW COURSES AND AERIAL MARKERS WILL BE READ. PRECIPITATION DURING THE PAST THREE MONTHS HAS BEEN ABOUT 120% OF AVERAGE. DREWS AND COTTONWOOD RESERVOIRS ARE BOTH HOLDING NEAR AVERAGE AMOUNTS OF WATER FOR JANUARY 1.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|---|---|-------------|
| | Spring Season | Late Season |
| Chewaucan River Crooked Creek Deep Creek Dry Creek East Side Goose Lake Guano Lake Honey Creek Lakeview Water Users Assn. Rock Creek (Hart Mountain) Silver-Buck Creeks Summer Lake Thomas Creek Twentymile Creek Warner Lakes | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



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PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | FORECAST PERIOD | PAST RECORD | |
|-------------------------------------|--------------------|--------------------|-----------------|--------------------|--|
| | FORECAST | | | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | Last Year | Average i | |
| Chewaucan near Paisley | c | | | | |
| Deep above Adel | c | | | | |
| Drews Reservoir net Inflow | c | | | | |
| Honey near Plush | c | | | | |
| Silver Creek near Silver Lake | c | | | | |
| Twentymile near Adel | c | | | | |

NOTE: FORECASTS BEGIN ON FEB. 1, 1974.

SOIL MOISTURE

| RIVER BASIN | Number of Stations | THIS YEAR'S MOISTURE as PERCENT OF: | |
|-------------------------------------|--------------------|-------------------------------------|-----------|
| | | Last Year | Average i |
| Chewaucan, Silver Creek, Drew Creek | 1 | 110 | 85 |
| Honey, Deep, 20-Mi. Cr. | 1 | 100 | 110 |

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

| RESERVOIR | Usable Capacity | Usable Storage | | |
|------------|-----------------|----------------|-----------|-----------|
| | | This Year | Last Year | Average i |
| Cottonwood | 8.7 | 2.7 | - - | 2.1* |
| Drews | 63.0 | 34.8 | - - | 29.8 |

*Average for years of record (in base period) after reconstruction.

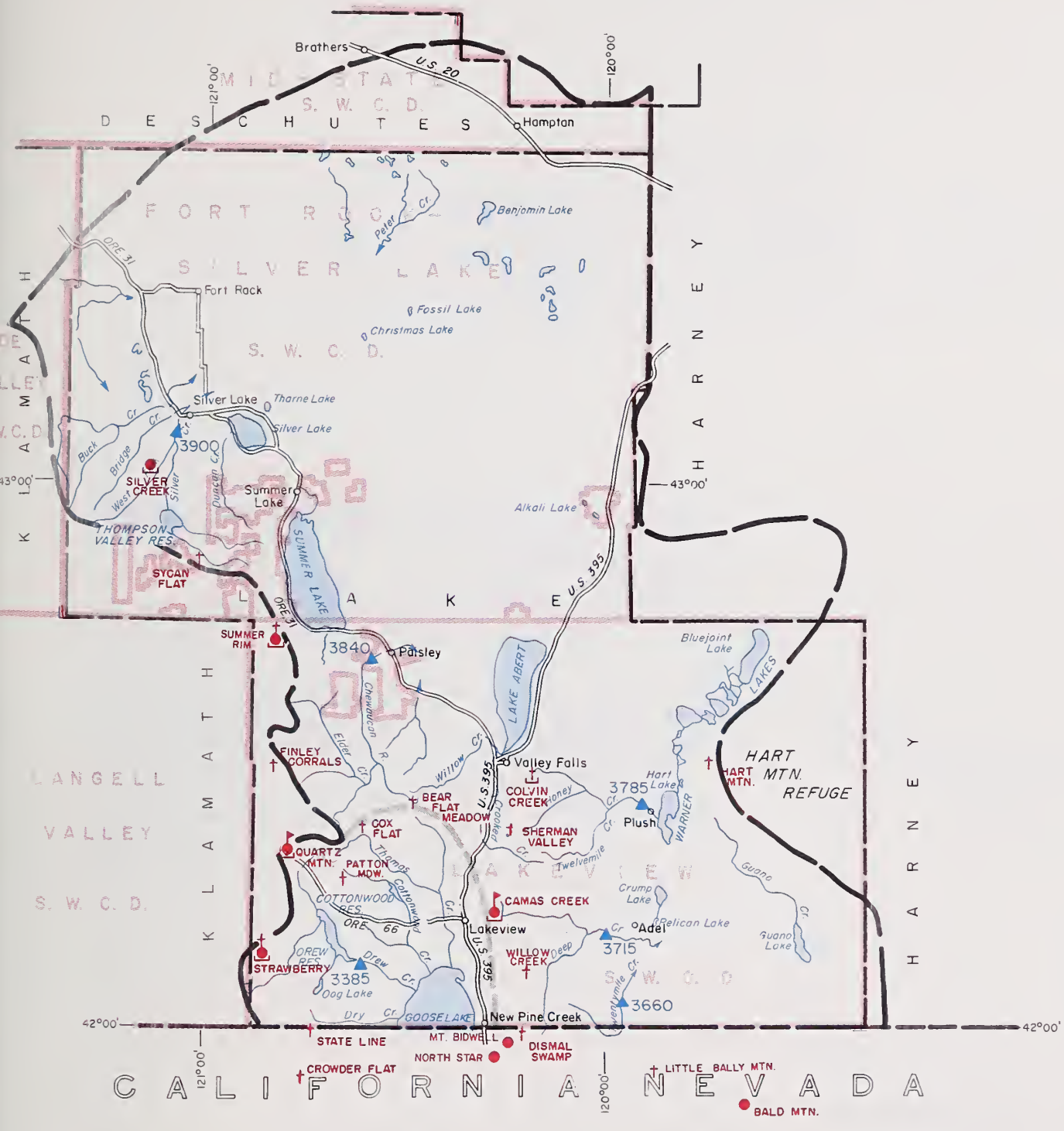
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|----------------------------------|----------------------------|--------------------------------------|-----------|
| | | Last Year | Average i |
| Chewaucan River | 2 | 315 | 90 |
| Deep Creek | 1 | 280 | 115 |
| Drew Creek | 1 | 285 | 65 |
| Honey Creek | 1 | 280 | 115 |
| Silver Creek | 2 | 380 | 90 |
| Twentymile Creek | - | - | - |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

LAKE COUNTY, GOOSE LAKE WATERSHEDS



LEGEND

- CEDAR PASS
- ADIN MTN.
- Watershed Boundary
- Sub-watershed Boundary
- Soil Conservation District Bdry
- - - - County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- P.P.&L. Snow Station
- ▤ Soil Moisture Station
- ┌ Precipitation Gage

WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

as of

JANUARY 1, 1974

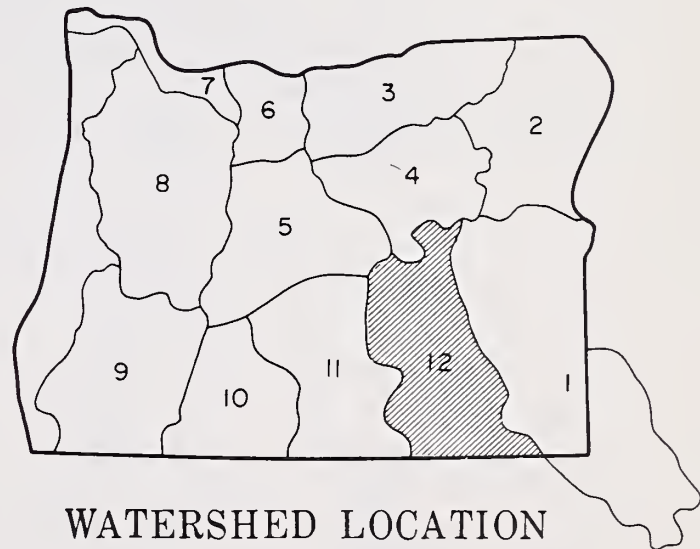
GENERAL OUTLOOK

HARNEY COUNTY WATER USERS SHOULD HAVE WELL ABOVE AVERAGE WATER SUPPLIES AVAILABLE NEXT SPRING AND SUMMER. THE MOUNTAIN SNOWPACK IS NEARLY DOUBLE THE NORMAL FOR JANUARY 1. PRECIPITATION DURING THE PAST THREE MONTHS HAS BEEN 120 TO 150% OF AVERAGE AND, AS A RESULT, SOILS BENEATH THE SNOWPACK CONTAIN ABOVE AVERAGE AMOUNTS OF MOISTURE FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

| STREAM or AREA | Flow Period | |
|---|---|-------------|
| | Spring Season | Late Season |
| Catlow Valley Cow Creek Donner und Blitzen River Mill-Coffeepot Creeks Rattlesnake Creek Silver Creek Silvies River Soldier-Prather Creek Trout Creek Whitehorse Creek | Forecasts begin in the February 1 report which will be issued about February 8, 1974. | |



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STREAMFLOW FORECASTS

| BASIN, STREAM and/or FORECAST POINT | THIS YEAR | | FORECAST PERIOD | PAST RECORD | |
|---|--------------------|--------------------|--|--------------------|----------------------|
| | FORECAST | | | THOUSAND ACRE FEET | |
| | Thousand Acre Feet | Percent of Average | | Last Year | Average ⁱ |
| Donner und Blitzen near Frenchglen Silver near Riley Silvies near Burns Trout near Denio | c c c c | | | | |
| | | | NOTE: FORECASTS BEGIN ON FEB. 1, 1974. | | |

SOIL MOISTURE

| RIVER BASIN | Number of Stations | THIS YEAR'S MOISTURE as PERCENT OF: | |
|--|--------------------|-------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| Silvies River, Silver Cr. Trout Cr., Donner und Blitzen River | 2 - | 125 - | 125 - |

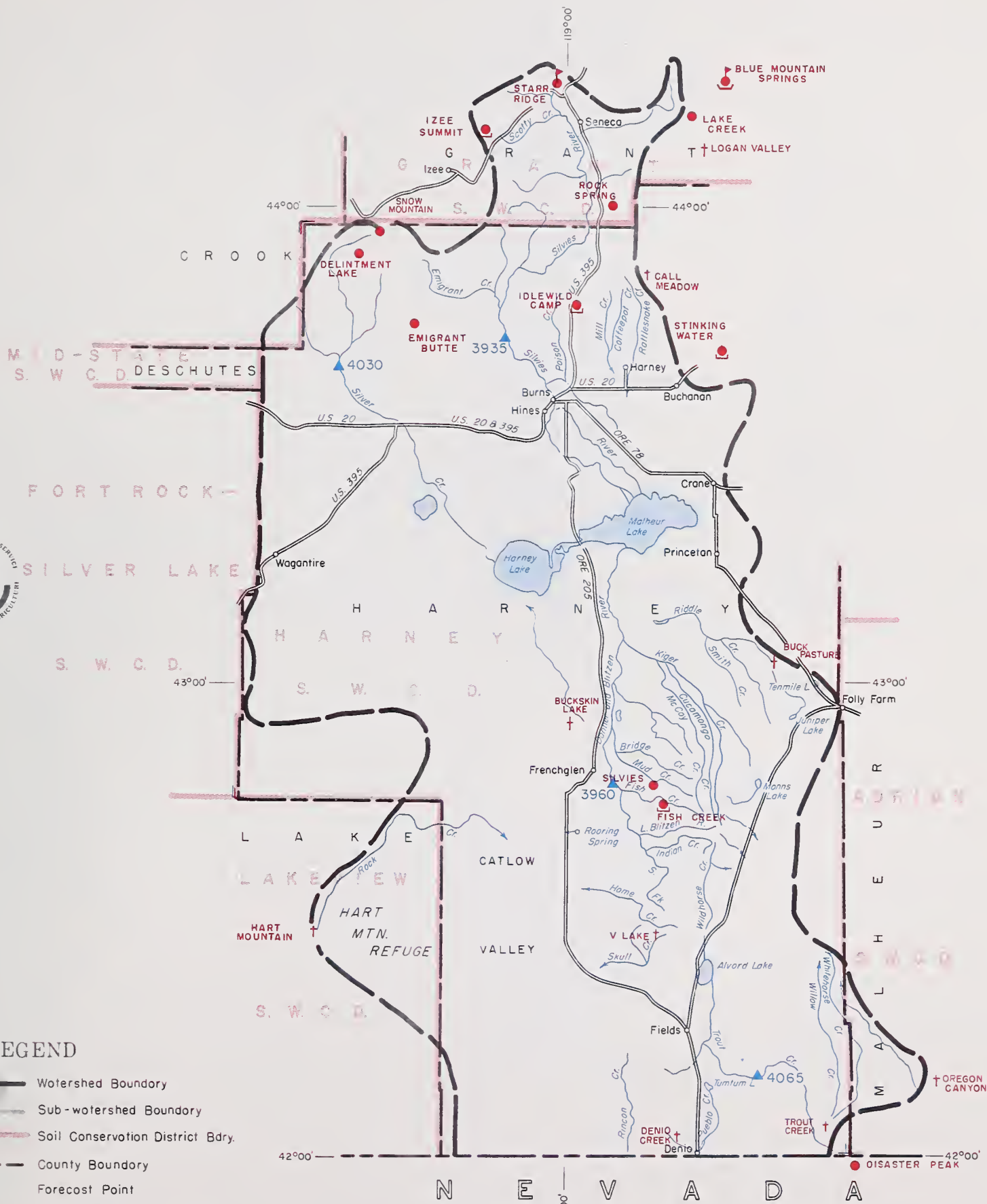
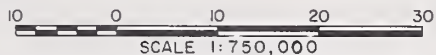
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

| RIVER BASIN and/or SUB-WATERSHED | Number of Courses Averaged | THIS YEAR'S SNOW WATER AS PERCENT OF | |
|---|----------------------------|--------------------------------------|----------------------|
| | | Last Year | Average ⁱ |
| Donner und Blitzen R. Silver Creek Silvies River Trout Creek | 1 - 4 - | 675 - 250 - | 195 - 210 - |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

HARNEY BASIN WATERSHEDS



BASIC DATA SUPPLEMENT 1

JANUARY 1, 1974

SNOW

SNOW

| DRAINAGE BASIN and or SNOW COURSE | THIS YEAR | | | PAST REC. | |
|-----------------------------------|----------------|------------------|-------------------|------------------------|------------------|
| | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) | |
| | | | | Last Yr. | Ave. l |
| OWYHEE, MALHEUR WATERSHEDS | | | | | |
| Antelope Ridge (Ida.) | 12/26 | 18 | 3.7 | - | - |
| Battle Creek (Ida.) | c | | | | |
| Bear Creek (Nev.) | 12/31 | 36 | 9.2 | 9.8 | 7.8 ^h |
| Big Bend (Nev.) | 1/4 | 23 | 5.9 | 3.9 | 3.0 |
| Blue Mountain Springs | 12/26 | 51 | 14.1 | 5.6 | 6.1 |
| Blue Mtn. Springs Pillow* | 12/26 | - | 7.6 | 4.4 | - |
| Buck Pasture | c | | | | |
| Buckskin, Lower (Nev.) | c | | | | |
| Buckskin, Upper (Nev.) | c | | | | |
| Bull Basin (Ida.) | c | | | | |
| Bully Creek | c | | | | |
| Call Meadow | c | | | | |
| Columbia Basin (Nev.) | c | | | | |
| Cottonwood-Indian | c | | | | |
| Crane Prairie | c | | | | |
| Disaster Peak (Nev.) | c | | | | |
| Eldorado Pass | 12/28 | 13 | 2.3 | 1.3 | 1.7 |
| Fawn Creek (Nev.) | c | | | | |
| Fish Creek | c | | | | |
| Fish Creek Pillow* | c | | | | |
| Flag Prairie | c | | | | |
| Fox Creek (Nev.) | c | | | | |
| Fry Canyon (Nev.) | 1/4 | 22 | 4.9 | 4.8 | 3.0 |
| Gold Creek (Nev.) | 1/4 | 17 | 3.9 | 1.7 | 1.9 |
| Granite Peak (Nev.) | c | | | | |
| Hyde Pasture (Ida.) | c | | | | |
| Jack Creek, Lower (Nev.) | c | | | | |
| Jack Creek, Upper (Nev.) | c | | | | |
| Jack Peak (Nev.) | c | | | | |
| Lake Creek R.S. | 12/26 | 32 | 7.7 | 3.5 | 3.8 ^h |
| Laurel Draw (Nev.) | c | | | | |
| Logan Valley | c | | | | |
| Lookout Butte | c | | | | |
| Louse Canyon | c | | | | |
| Martin Creek (Nev.) | c | | | | |
| Merritt Mountain (Nev.) | c | | | | |
| Midas (Nev.) | c | | | | |
| Mud Flat (Ida.) | 12/26 | 18 | 3.4 | - | - |
| Oregon Canyon | c | | | | |
| Quinn Ridge (Nev.) | c | | | | |
| Red Canyon (Ida.) | c | | | | |
| Rock Spring | 12/27 | 18 | 3.4 | 1.8 | 1.8 |
| Rodeo Flat (Nev.) | 1/4 | 21 | 4.8 | 4.7 | 2.6 |
| 76 Creek (Nev.) | 12/30 | 30 | 8.1 | 6.2 | - |
| Silver City (Ida.) | 1/4 | 42 | 12.7 | 3.4 | 5.6 |
| Silvies | c | | | | |
| Silvies Pillow* | c | | | | |
| South Mountain #2 (Ida.) | 1/3 | 37 | 11.2 | 2.6 | 3.9 |
| Stag Mountain (Nev.) | c | | | | |
| Stinking Water | 12/28 | 12 | 2.7 | 0.4 | 1.4 ^h |
| Succor Creek (Ida.) | c | | | | |
| Taylor Canyon (Nev.) | 1/2 | 14 | 2.6 | 3.2 | 1.8 |
| Toe Jam (Nev.) | c | | | | |
| Tremewan Ranch (Nev.) | 1/2 | 6 | 1.4 | 2.3 | 0.8 |
| Triangle (Ida.) | c | | | | |
| Trout Creek | c | | | | |
| "V" Lake | c | | | | |
| Vaught Ranch (Ida.) | c | | | | |
| War Eagle (Ida.) | c | | | | |

| DRAINAGE BASIN and or SNOW COURSE | THIS YEAR | | | PAST REC. | |
|--|----------------|------------------|-------------------|------------------------|------------------|
| | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) | |
| | | | | Last Yr. | Ave. l |
| BURNT, POWDER, PINE, GRANDE RONDE, INNAHA WATERSHEDS | | | | | |
| Aneroid Lake #1 | c | | | | |
| Aneroid Lake #2 | c | | | | |
| Anthony Lake | 1/2 | 68 | 20.1 | 8.0 | 11.0 |
| Bald Mountain (Ore.) | c | | | | |
| Beaver Reservoir (Rev.) ^{1/} | 1/4 | 45 | 11.3 | 2.5 | 5.4 ^h |
| Big Sheep | c | | | | |
| Blue Mtn. Summit | 12/28 | 34 | 7.8 | 1.7 | 3.3 |
| Bourne | c | | | | |
| County Line | 12/28 | 18 | 2.9 | 0.6 | 2.2 |
| Dooley Mountain | 12/26 | 22 | 4.8 | 2.5 | 3.8 |
| Eilertson Meadows | 12/27 | 37 | 9.0 | 2.2 | 4.7 |
| Eldorado Pass | 12/28 | 13 | 2.3 | 1.3 | 1.7 |
| Gold Center | c | | | | |
| Goodrich Lake | c | | | | |
| Intake House | 12/27 | 41 | 10.4 | 4.4 | 5.5 ^h |
| Little Alps | 1/2 | 43 | 10.2 | 3.4 | 5.5 ^h |
| Little Antone | 1/2 | 28 | 6.3 | 1.8 | 4.1 ^m |
| Lucky Strike | c | | | | |
| Lucky Strike Pillow* | c | | | | |
| Meacham | 12/27 | 41 | 9.0 | 0.6 | 3.3 |
| Mirror Lake | c | | | | |
| Moss Spring | c | | | | |
| Power Plant | 12/27 | 22 | 3.7 | 1.8 | 3.0 ^h |
| Schneider Meadow | c | | | | |
| Schoolmarm | 12/28 | 16 | 2.6 | 0.5 | 1.9 |
| Standley | c | | | | |
| Taylor Green | c | | | | |
| Tipton | 12/28 | 46 | 11.3 | 3.1 | 4.2 |
| Tipton Snow Pillow* | 12/28 | - | 12.5 | 4.5 | - |
| Tollgate | 12/28 | 86 | 25.7 | 6.6 | 8.9 |
| TV Ridge | c | | | | |
| UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS | | | | | |
| Arbuckle Mountain | c | | | | |
| Arbuckle Mtn. Pillow* | c | | | | |
| Battle Mountain Summit | 12/28 | 9 | 1.6 | T | 1.3 ^h |
| Blue Mountain Camp | 12/28 | 51 | 18.4 | 2.8 | 5.5 ^h |
| Butte Creek Summit | b | | | | |
| Emigrant Springs | 12/27 | 29 | 8.5 | T | 2.4 |
| High Ridge Pillow* | 12/17 | - | 16.6 | 10.8 | - |
| Lucky Strike | c | | | | |
| Lucky Strike Pillow* | c | | | | |
| Meacham | 12/27 | 41 | 9.0 | 0.6 | 3.3 |
| Tollgate | 12/28 | 86 | 25.7 | 6.6 | 8.9 |
| Weston Mountain | 12/28 | 5 | 0.8 | T | 0.3 ^h |

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1974

SNOW

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR | | | PAST REC. | |
|-----------------------------------|----------------|------------------|-------------------|------------------------|--------|
| | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) | |
| | | | | Last Yr. | Ave. i |

| UPPER JOHN DAY WATERSHEDS | | | | | |
|---------------------------|-------|----|------|-----|------------------|
| Anthony Lake | 1/2 | 68 | 20.1 | 8.0 | 11.0 |
| Arbuckle Mountain | c | | | | |
| Arbuckle Mt. Pillow* | c | | | | |
| Battle Mountain Summit | 12/28 | 9 | 1.6 | T | 1.3 ^h |
| Beech Creek Summit | 12/28 | 5 | 1.6 | 0.3 | 2.0 |
| Blue Mountain Springs | 12/26 | 51 | 14.1 | 5.6 | 6.1 |
| Blue Mt. Springs Pillow* | 12/26 | - | 7.6 | 4.4 | - - |
| Blue Mountain Summit | 12/28 | 34 | 7.8 | 1.7 | 3.3 |
| Butte Creek Summit | b | | | 1.4 | - - |
| Derr | c | | | | |
| Gold Center | c | | | | |
| Indian Creek Butte | c | | | | |
| Izee Summit | 12/28 | 22 | 5.3 | 2.3 | 3.0 |
| Lucky Strike | c | | | | |
| Lucky Strike Pillow* | c | | | | |
| Marks Creek | 12/26 | 6 | 2.4 | T | 1.9 |
| Ochoco Meadows | c | | | | |
| Olive Lake | c | | | | |
| Schoolmarm | 12/28 | 16 | 2.6 | 0.5 | 1.9 |
| Snow Mountain | c | | | | |
| Snow Mt. Pillow** | 1/3 | - | 8.5 | 5.2 | - - |
| Starr Ridge | 12/28 | 20 | 4.8 | 1.4 | 2.2 |
| Tipton | 12/28 | 46 | 11.3 | 3.1 | 4.2 |
| Tipton Snow Pillow* | 12/28 | - | 12.5 | 4.5 | - - |
| Williams Ranch | c | | | | |

| UPPER DESCHUTES, CROOKED WATERSHEDS | | | | | |
|--------------------------------------|-------|----|------|------|-------------------|
| Bald Peter | 12/28 | 82 | 27.8 | 7.0 | - - |
| Caldwell Ranch | c | | | | |
| Cascade Summit | 12/27 | 59 | 20.2 | 5.8 | 10.7 |
| Chemult | 12/28 | 22 | 6.9 | 2.2 | 4.0 |
| Chemult Alternate | 12/28 | 27 | 8.0 | - - | - - |
| Derr | c | | | | |
| Hogg Pass | 12/27 | 73 | 28.5 | 5.5 | 14.5 |
| Hungry Flat | 12/24 | 11 | 3.9 | 0.0 | 3.5 ^m |
| Irish-Taylor Pillow ^{1/} ** | 1/3 | - | 31.2 | 10.0 | - - |
| Lionshead | 12/18 | 36 | 12.2 | - - | - - |
| Marks Creek | 12/26 | 6 | 2.4 | T | 1.9 |
| New Crescent Lake | c | | | | |
| New Dutchman Flat #2 | 12/24 | 85 | 50.5 | 15.1 | 22.3 ^m |
| Ochoco Meadows | c | | | | |
| Racing Creek | 12/28 | 42 | 14.4 | 1.6 | - - |
| Snow Mountain | c | | | | |
| Snow Mt. Pillow** | 1/3 | - | 8.5 | 5.2 | - - |
| Tamarack | c | | | | |
| Tangent | 12/24 | 54 | 18.1 | 5.6 | 8.4 ^h |
| Three Creek Butte | c | | | | |
| Three Creek Meadow | c | | | | |
| Three Creek Mdw. Pillow** | 12/28 | - | 15.6 | - - | - - |
| Waldo Lake | c | | | | |
| Whitewater Meadow | 12/18 | 14 | 4.8 | - - | - - |
| Willamette Pass | c | | | | |
| Willamette Pass Pillow** | b | | | | |

SNOW

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR | | | PAST REC. | |
|-----------------------------------|----------------|------------------|-------------------|------------------------|--------|
| | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) | |
| | | | | Last Yr. | Ave. i |

| HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS | | | | | |
|---|-------|----|------|------|------------------|
| Brooks Meadows | | | | | |
| Clear Lake | 12/28 | 24 | 8.0 | 0.5 | 3.4 |
| Clear Lake (Experimental) | 12/28 | 40 | 13.4 | 1.3 | 5.4 ^h |
| Cooper Spur (Revised) ^{1/} | 1/3 | 48 | 12.7 | 0.2 | 6.2 ^h |
| Greenpoint | c | | | | |
| Knebal Springs | c | | | | |
| Mt. Hood Test Site ^{1/} ** | 1/27 | - | 37.7 | 12.3 | 22.9 |
| Parkdale | 1/3 | 21 | 4.2 | 0.0 | 1.1 ^h |
| Red Hill | c | | | | |
| Still Creek | 12/28 | 52 | 20.4 | 2.2 | 7.9 |
| Still Creek Alt. #2 | 12/28 | 53 | 20.5 | 2.3 | - - |
| Switchback | c | | | | |
| Tilly Jane | c | | | | |
| Ulrich Ranch Junction | c | | | | |
| Umbrella Falls | c | | | | |
| Upper Valley | 1/3 | 25 | 4.6 | T | 3.1 ^h |

| WILLAMETTE WATERSHEDS | | | | | |
|-------------------------------------|-------|----|------|------|-------------------|
| Cascade Summit | 12/27 | 59 | 20.2 | 5.8 | 10.7 |
| Champion | 12/28 | 69 | 28.5 | 3.2 | 11.2 ^h |
| Clackamas Lake | c | | | | |
| Clear Lake | 12/28 | 24 | 8.0 | 0.5 | 3.4 |
| Clear Lake (Expt.) | 12/28 | 40 | 13.4 | 1.3 | 5.4 ^h |
| Dead Horse Grade | 12/25 | 23 | 8.3 | 2.3 | 6.4 |
| Detroit (Town) | 12/27 | 0 | 0.0 | 0.0 | 1.0 |
| Detroit Dam | 12/27 | 0 | 0.0 | 0.0 | 0.5 |
| Fawn Meadow | 1/3 | 64 | 24.2 | 4.7 | |
| Golden Curry Creek | 12/28 | 0 | 0.0 | 0.1 | 2.3 ^m |
| Hogg Pass | 12/27 | 73 | 28.5 | 5.5 | 14.5 ^m |
| Lake Harriet | 12/28 | T | T | - - | 1.1 ^m |
| Laurel Mountain | 1/2 | T | T | 0.6 | - - |
| Layng Creek | 12/28 | 0 | 0.0 | 0.0 | 0.1 |
| Lookout Point Dam | 12/23 | 0 | 0.0 | 0.0 | 0.0 ^h |
| Lost Creek Ranch | 12/25 | 0 | 0.0 | 0.0 | 2.0 |
| Lund Park | 12/28 | 0 | 0.0 | 0.0 | T ^h |
| Marion Forks | 12/27 | 29 | 12.3 | 1.0 | 4.7 ^h |
| Marys Peak (Revised) ^{1/} | c | | | | |
| McCredie Springs | 12/23 | 0 | 0.0 | 0.0 | 0.5 ^h |
| McKenzie | 12/25 | 72 | 41.4 | 9.2 | 17.8 |
| McKenzie Bridge | 12/25 | 0 | 0.0 | 0.0 | 0.6 |
| Mill City | 12/27 | 0 | 0.0 | 0.0 | 0.2 |
| Mt. Hood Test Site ^{1/} ** | 12/27 | - | 37.7 | 12.3 | 22.9 |
| Oakridge | 12/23 | 0 | 0.0 | 0.0 | 0.0 ^h |
| Olallie Meadow | 12/26 | 53 | 16.4 | 3.5 | |
| Peavine Ridge Pillow** | 1/3 | - | 15.5 | 1.4 | 5.7 ^h |
| Power Line (Olallie) | 12/26 | 43 | 14.0 | 4.3 | |
| Railroad Overpass | 12/23 | 0 | 0.0 | 0.1 | 0.8 ^h |
| Saddle Mountain Pillow** | 1/3 | - | 3.3 | 0.0 | - - |
| Salt Creek Falls | 12/27 | 26 | 10.2 | 1.8 | 5.2 |
| Santiam Junction | 12/27 | 48 | 21.2 | 3.1 | 8.6 ^h |
| Seine Creek Pillow** | 1/3 | - | 0.0 | 0.0 | - - |
| Still Creek | 12/28 | 52 | 20.4 | 2.2 | 7.9 |
| Still Creek Alt. #2 | 12/28 | 53 | 20.5 | 2.3 | - - |
| Timothy Lake | 12/28 | 36 | 12.7 | - - | 6.3 ^m |
| Valsetz Summit | 1/2 | 0 | 0.0 | T | - - |
| Vida | 12/25 | 0 | 0.0 | 0.0 | 0.2 |
| Waldo Lake | c | | | | |
| Weaver Creek | 12/28 | 0 | 0.0 | T | 0.4 ^m |
| White Branch Slide | 12/25 | T | T | 1.0 | 3.1 |
| Whitewater Bridge | 12/27 | 7 | 3.2 | T | 2.3 ^h |
| Willamette Pass | c | | | | |
| Willamette Pass Pillow** | b | | | | |

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1974

SNOW

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR | | | PAST REC. | |
|---|----------------|------------------|-------------------|------------------------|-------------------|
| | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) | |
| | | | | Last Yr. | Ave. i |
| ROGUE, UMPQUA WATERSHEDS | | | | | |
| Althouse (Revised) ^{1/} | c | | | | |
| Annie Spring | 12/30 | 102 | 35.3 | 15.7 | 16.3 |
| Beaver Dam Creek | 12/28 | 26 | 10.4 | 3.9 | 6.6 ^m |
| Big Red Mountain | c | | | | |
| Billie Creek Divide | 12/27 | 41 | 13.8 | 7.7 | 8.7 ^h |
| Caliban | c | | | | |
| Caliban (Alternate) | c | | | | |
| Champion | 12/28 | 69 | 28.5 | 3.2 | 11.2 ^h |
| Cold Springs Camp | c | | | | |
| Cold Spgs. Camp Pillow** | 1/3 | - | 27.2 | 10.0 | - - |
| Deadwood Junction | 12/28 | 14 | 5.4 | 2.9 | 4.0 ^h |
| Diamond-Crater Sum. (Rev) ^{1/} | 12/27 | 73 | 24.1 | 7.6 | 11.3 ^h |
| Diamond Lake | 12/27 | 48 | 16.9 | 3.8 | 7.6 |
| Fish Lake | 12/27 | 24 | 8.9 | 4.2 | 5.6 ^h |
| Fourmile Lake | 12/31 | 48 | 20.6 | - - | - - |
| Grayback Peak | c | | | | |
| Howard Prairie Reservoir | 12/28 | 15 | 5.6 | 2.1 | 3.9 ^h |
| Hyatt Prairie | 12/28 | 12 | 6.0 | 2.5 | 3.7 |
| King Mountain #1 | 12/27 | 10 | 2.9 | T | 8.3 ^m |
| King Mountain #2 | 12/27 | 0 | 0.0 | 0.0 | 6.5 ^m |
| King Mountain #3 | 12/27 | 0 | 0.0 | 0.0 | 3.4 ^m |
| King Mountain #4 | 12/27 | 0 | 0.0 | 0.0 | 0.2 ^m |
| King Mountain #5 | 12/27 | 0 | 0.0 | 0.0 | 0.0 ^m |
| King Mountain #6 | 12/27 | 0 | 0.0 | 0.0 | 0.0 ^m |
| Little Red Mountain | c | | | | |
| Mt. Ashland Switchback | c | | | | |
| Mule Creek | 12/27 | 0 | 0.0 | 0.0 | - - |
| North Umpqua | 12/28 | 35 | 12.5 | 2.8 | 6.0 |
| Page Mountain | c | | | | |
| Park Headquarters | 12/30 | 136 | 48.5 | 19.8 | 23.3 |
| Red Butte #1 | 12/26 | 25 | 10.3 | 0.0 | 6.5 ^m |
| Red Butte #2 | 12/26 | 8 | 2.7 | 0.0 | 4.0 ^m |
| Red Butte #3 | 12/26 | 0 | 0.0 | 0.0 | 2.8 ^m |
| Red Butte #4 | 12/26 | 0 | 0.0 | 0.0 | 1.8 ^m |
| Red Butte #5 | 12/26 | 0 | 0.0 | 0.0 | 2.2 ^m |
| Red Butte #6 | 12/26 | 0 | 0.0 | 0.0 | 0.6 ^m |
| Seven Lakes #2 | c | | | | |
| Seven Mile | c | | | | |
| Silver Burn | 12/28 | 23 | 8.0 | 3.3 | 5.6 |
| Siskiyou Summit (Rev.) ^{1/} | 12/28 | 4 | 1.2 | T | 3.7 ^h |
| Ski Bowl Road | c | | | | |
| South Fork Canal | 12/28 | 0 | 0.0 | 0.5 | 2.1 |
| Trap Creek | 12/28 | 26 | 10.0 | 3.7 | 5.2 ^h |
| Whaleback | c | | | | |

SNOW

| DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR | | | PAST REC. | |
|--|----------------|------------------|-------------------|------------------------|-------------------|
| | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) | |
| | | | | Last Yr. | Ave. i |
| KLAMATH WATERSHEDS | | | | | |
| Annie Spring | 12/30 | 102 | 35.3 | 15.7 | 16.3 |
| Billie Creek Divide | 12/27 | 41 | 13.8 | 7.7 | 8.7 ^h |
| Chemult | 12/28 | 22 | 6.9 | 2.2 | 4.0 |
| Chemult (Alternate) | 12/28 | 27 | 8.0 | - - | - - |
| Chiloquin (PP&L) | 12/31 | 2 | 0.6 | - - | 0.6 ^m |
| Cold Springs Camp | c | | | | |
| Cold Springs Pillow** | 1/3 | - | 27.2 | 10.0 | - - |
| Crazyman Flat | c | | | | |
| Crowder Flat (Calif.) | c | | | | |
| Crystal (PP&L) | 12/29 | 12 | 4.5 | 2.2 | 3.9 |
| Diamond-Crater Sum (Rev) ^{1/} | 12/27 | 73 | 24.1 | 7.6 | 11.3 ^h |
| Diamond Lake Junction (97) | 12/27 | 10 | 2.6 | T | 2.4 ^h |
| Dog Hollow | c | | | | |
| Finley Corrals | c | | | | |
| Fort Klamath (PP&L) | 12/31 | 3 | 1.2 | T | 1.7 |
| Fourmile Lake | 12/31 | 48 | 20.6 | - - | - - |
| Gerber | 1/2 | 3 | 1.0 | T | 1.1 ^h |
| Harriman (PP&L) | 12/31 | 10 | 3.5 | 1.7 | 1.8 |
| Howard Prairie | 12/28 | 15 | 5.6 | 2.1 | 3.9 ^h |
| Hyatt Prairie Reservoir | 12/28 | 12 | 6.0 | 2.5 | 3.7 |
| Kirk (PP&L) | 12/31 | 18 | 3.8 | - - | 3.3 ^h |
| Lake of the Woods | 12/26 | 18 | 5.0 | 2.7 | 5.0 ^h |
| Park Headquarters | 12/30 | 136 | 48.5 | 19.8 | 23.3 |
| Quartz Mountain | 12/28 | 9 | 1.7 | 0.6 | 2.6 |
| Seven Lakes #2 | c | | | | |
| Seven Mile | c | | | | |
| State Line (Calif.) | c | | | | |
| Strawberry | c | | | | |
| Summer Rim | c | | | | |
| Summer Rim Pillow* | c | | | | |
| Sycan Flat | c | | | | |
| Taylor Butte | 12/28 | 11 | 2.7 | 0.8 | 2.3 ^h |
| LAKE COUNTY, GOOSE LAKE WATERSHEDS | | | | | |
| Adin Mountain (Calif.) | c | | | | |
| Bald Mountain (Nev.) | c | | | | |
| Bear Flat Meadow | c | | | | |
| Camas Creek | 12/28 | 21 | 4.8 | 1.7 | 4.1 ^m |
| Cedar Pass (Calif.) | c | | | | |
| Colvin Creek | c | | | | |
| Cox Flat | c | | | | |
| Crowder Flat (Calif.) | c | | | | |
| Dismal Swamp (Calif.) | c | | | | |
| Finley Corrals | c | | | | |
| Hart Mountain | c | | | | |
| Little Bally Mtn. (Nev.) | c | | | | |
| Mt. Bidwell (Calif.) | c | | | | |
| North Star (Calif.) | c | | | | |
| Patton Meadows | c | | | | |
| Quartz Mountain | 12/28 | 9 | 1.7 | 0.6 | 2.6 |
| Sherman Valley | c | | | | |
| Silver Creek | 12/27 | 3 | 0.7 | 0.1 | 1.5 |
| State Line (Calif.) | c | | | | |
| Strawberry | c | | | | |
| Summer Rim | c | | | | |
| Summer Rim Pillow* | c | | | | |
| Sycan Flat | c | | | | |
| Willow Creek | c | | | | |

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1974

| SNOW DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR | | | PAST REC. | | SNOW DRAINAGE BASIN and/or SNOW COURSE | THIS YEAR | | | PAST REC. | |
|---|----------------|------------------|-------------------|------------------------|------------------|---|----------------|------------------|-------------------|------------------------|--------|
| | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) | | | Date of Survey | Snow Depth (In.) | Water Cont. (In.) | Water Content (inches) | |
| | | | | Last Yr. | Ave. i | | | | | Last Yr. | Ave. i |
| HARNEY BASIN WATERSHEDS | | | | | | | | | | | |
| Blue Mountain Springs | 12/26 | 51 | 14.1 | 5.6 | 6.1 | | | | | | |
| Blue Mtn. Springs Pillow* | 12/26 | - | 7.6 | 4.4 | - - | | | | | | |
| Buck Pasture | c | | | | | | | | | | |
| Buckskin Lake | c | | | | | | | | | | |
| Call Meadows | c | | | | | | | | | | |
| Delintment Lake | c | | | | | | | | | | |
| Denio Creek | c | | | | | | | | | | |
| Disaster Peak (Nev.) | c | | | | | | | | | | |
| Emigrant Butte | c | | | | | | | | | | |
| Fish Creek | c | | | | | | | | | | |
| Fish Creek Pillow* | c | | | | | | | | | | |
| Hart Mountain | c | | | | | | | | | | |
| Idlewild Camp | 12/28 | 20 | 5.0 | 0.2 | 1.8 | | | | | | |
| Idlewild Camp Alternate | 12/28 | 17 | 4.6 | 0.2 | - - | | | | | | |
| Izee Summit | 12/28 | 22 | 5.3 | 2.3 | 3.0 | | | | | | |
| Lake Creek R.S. | 12/26 | 32 | 7.7 | 3.5 | 3.8 ^h | | | | | | |
| Oregon Canyon | c | | | | | | | | | | |
| Rock Spring | 12/27 | 18 | 3.4 | 1.8 | 1.8 | | | | | | |
| Silvies | c | | | | | | | | | | |
| Silvies Pillow* | c | | | | | | | | | | |
| Snow Mountain | c | | | | | | | | | | |
| Snow Mountain Pillow** | 1/3 | - | 8.5 | 5.2 | - - | | | | | | |
| Starr Ridge | 12/28 | 20 | 4.8 | 1.4 | 2.2 | | | | | | |
| Stinking Water | 12/28 | 12 | 2.7 | 0.4 | 1.4 ^h | | | | | | |
| Trout Creek | c | | | | | | | | | | |
| "V" Lake | c | | | | | | | | | | |

*Manometer reading.

**Telemetry reading.

¹/Location has been changed--surveys are made on an alternate site and data has been revised accordingly.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBK records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 2

JANUARY 1, 1974

SOIL MOISTURE

| DRAINAGE BASIN and/or STATION | | Profile (Inches) | | Date of Survey | Soil Moisture (Inches) | | |
|--|--------------|------------------|----------|----------------|------------------------|-----------|-------------------|
| Name | Elevation | Depth | Capacity | | This Year | Last Year | Average i |
| OWYHEE, MALHEUR WATERSHEDS | | | | | | | |
| Bear Creek (Nev.) | 7800 | 72 | 16.8 | c | | | |
| Big Bend (Nev.) | 6700 | 48 | 16.7 | 1/4 | 14.4 | 11.9 | 14.5 ^m |
| Blue Mountain Spring | 5900 | 42 | 16.9 | 12/26 | 11.4 | 6.0 | 9.0 ^m |
| Crane Prairie | DISCONTINUED | | | | | | |
| Jordan Valley | 4390 | 48 | 19.3 | 1/3 | 14.5 | 16.7 | 14.8 ^m |
| Mud Flat (Ida.) | 5500 | 48 | 12.8 | c | | | |
| Rodeo Flat (Nev.) | 6800 | 42 | 11.0 | 1/4 | 7.4 | 5.5 | 9.1 ^m |
| Taylor Canyon (Nev.) | 6200 | 48 | 15.1 | 1/2 | 10.6 | 10.9 | 11.8 ^m |
| BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS | | | | | | | |
| Blue Mountain Summit | 5100 | 36 | 16.8 | 12/28 | 12.3 | 8.9 | 8.7 ^m |
| Dooley Mountain | 5430 | 36 | 9.2 | 12/26 | 3.8 | 2.6 | 4.0 ^m |
| Emigrant Springs | 3925 | 48 | 22.3 | 12/27 | 20.9 | 18.0 | 18.6 ^m |
| Ladd Summit | 3730 | 48 | 18.9 | 1/2 | 11.0 | 9.9 | 10.0 ^m |
| Moss Springs | 5850 | 36 | 25.8 | c | | | |
| Tollgate | 5070 | 48 | 23.6 | 12/28 | 14.2 | 14.0 | 18.7 ^m |
| UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS | | | | | | | |
| Battle Mountain Summit | 4340 | 48 | 13.8 | 12/28 | 13.7 | 12.0 | 11.7 ^m |
| Emigrant Springs | 3925 | 48 | 22.3 | 12/27 | 20.9 | 18.0 | 18.6 ^m |
| Tollgate | 5070 | 48 | 23.6 | 12/28 | 14.2 | 14.0 | 18.7 ^m |
| UPPER JOHN DAY WATERSHEDS | | | | | | | |
| Battle Mountain Summit | 4340 | 48 | 13.8 | 12/28 | 13.7 | 12.0 | 11.7 ^m |
| Beech Creek | 4800 | 48 | 21.3 | 12/28 | 18.5 | 13.4 | 10.2 ^m |
| Blue Mountain Spring | 5900 | 42 | 16.9 | 12/26 | 11.4 | 6.0 | 9.0 ^m |
| Blue Mountain Summit | 5100 | 36 | 16.8 | 12/28 | 12.3 | 8.9 | 8.7 ^m |
| Derr | 5670 | 24 | 9.0 | c | | | |
| Marks Creek | 4540 | 36 | 14.1 | 12/26 | 13.4 | 10.2 | 10.2 |
| Snow Mountain | 6300 | 48 | 16.7 | c | | | |
| Starr Ridge | 5150 | 36 | 10.6 | 12/27 | 10.6 | 9.0 | 8.9 ^m |
| Williams Ranch - DISCONTINUED | | | | | | | |
| UPPER DESCHUTES, CROOKED WATERSHEDS | | | | | | | |
| Derr | 5670 | 24 | 9.0 | c | | | |
| Marks Creek | 4540 | 36 | 14.1 | 12/26 | 13.4 | 10.2 | 10.2 |
| Snow Mountain | 6300 | 48 | 16.7 | c | | | |
| HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS | | | | | | | |
| Cooper Spur - DISCONTINUED | | | | | | | |
| KLAMATH WATERSHEDS | | | | | | | |
| Quartz Mountain | 5230 | 48 | 15.3 | 12/28 | 7.9 | 7.4 | 8.6 ^m |

BASIC DATA SUPPLEMENT 2

JANUARY 1, 1974

SOIL MOISTURE

| DRAINAGE BASIN and/or STATION | | Profile (Inches) | | Date of Survey | Soil Moisture (Inches) | | |
|------------------------------------|-----------|------------------|----------|----------------|------------------------|-----------|----------------------|
| Name | Elevation | Depth | Capacity | | This Year | Last Year | Average ⁱ |
| LAKE COUNTY, GOOSE LAKE WATERSHEDS | | | | | | | |
| Camas Creek | 5720 | 42 | 14.5 | 12/28 | 12.9 | 12.8 | 11.9 ^m |
| Quartz Mountain | 5230 | 48 | 15.3 | 12/28 | 7.9 | 7.4 | 8.6 ^m |
| HARNEY BASIN WATERSHEDS | | | | | | | |
| Blue Mountain Spring | 5900 | 42 | 16.9 | 12/26 | 11.4 | 6.0 | 9.0 ^m |
| Fish Creek - DISCONTINUED | | | | | | | |
| Silvies | 6900 | 48 | 16.4 | c | | | |
| Snow Mountain | 6300 | 48 | 16.7 | c | | | |
| Starr Ridge | 5150 | 36 | 10.6 | 12/27 | 10.6 | 9.0 | 8.9 ^m |
| Willow-Bald | 5000 | 24 | 6.6 | 1/7 | 6.6 | 4.6 | 4.8 ^m |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 3

JANUARY 1, 1974

PRECIPITATION (Inches)

| DRAINAGE BASIN and PRECIPITATION GAGE LOCATION | ELEVATION | CURRENT INFORMATION | | PAST RECORD | |
|--|-----------|------------------------|---------------|-------------|----------------------|
| | | Date of Reading | Precipitation | Last Year | Average ⁱ |
| Camas Creek (Lake County) | 5825 | From 12/8 to 12/28 | 9.45 | 3.57 | |
| County Line (Umatilla County--Starkey Hdqs.) | 4800 | From 11/30 to 12/28 | 3.70 | 2.90 | |
| Marks Creek (Crook-Wheeler Cos.) | 4540 | From 11/26 to 12/26 | 4.50 | - | |
| Quartz Mt. Summit (Lake County) | 6300 | From 11/29 to 12/28 | 3.67 | 3.20 | |
| Saddle Mountain (Washington County) | 3250 | From 12/1 to 12/29 | 24.70 | - | |
| Seine Creek (Washington County) | 2150 | From 12/1 to 12/29 | 15.50 | - | |
| Taylor Butte (Klamath County) | 5040 | From 10/29 to 12/28 | 10.96 | 4.83 | |

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

| NUMBER | NAME | LOCATION SEC TWP RGE | ELEV | NUMBER | NAME | LOCATION SEC TWP RGE | ELEV | NUMBER | NAME | LOCATION SEC TWP RGE | ELEV | NUMBER | NAME | LOCATION SEC TWP RGE | ELEV |
|--------|------|-------------------------|------|--------|------|-------------------------|------|--------|------|-------------------------|------|--------|------|-------------------------|------|
|--------|------|-------------------------|------|--------|------|-------------------------|------|--------|------|-------------------------|------|--------|------|-------------------------|------|

| OWYHEE, MALHEUR WATERSHEDS (11) | | | |
|---------------------------------|-------------------|------------------|------|
| Owyhee River | | | |
| 1656 | Antelope Ridge | (Ida) 20 8S 1E | 5900 |
| 1659a | Battle Creek | (Ida) 10 11S 1E | 5700 |
| 15H1a | Bear Creek | (Nev) 31 46N 58E | 7800 |
| 15H4MP | Big Bend | (Nev) 30 45N 56E | 6700 |
| 17H1 | Buckskin, Lower | (Nev) 25 45N 39E | 6700 |
| 17H2 | Buckskin, Upper | (Nev) 11 45N 39E | 7200 |
| 17H3 | Bull Basin | (Ida) 29 12S 5W | 5600 |
| 18510a | Columbia Basin | (Nev) 31 44N 53E | 6650 |
| 18H1 | Disaster Peak | (Nev) 8 47N 34E | 6500 |
| 1659a | Fam Creek | (Nev) 2 45N 52E | 7000 |
| 18527a | Fish Creek | (Nev) 3 33N 33E | 7900 |
| 13H2 | Fox Creek | (Nev) 31 43N 54E | 6700 |
| 15H7 | Fry Canyon | (Nev) 31 45N 56E | 6600 |
| 15H5 | Gold Peak | (Nev) 22 44N 53E | 7800 |
| 17H4 | Hyde Pasture | (Ida) 31 8S 2W | 5800 |
| 1855a | Jack Creek, Lower | (Nev) 18 42N 53E | 6800 |
| 1855b | Jack Creek, Upper | (Nev) 9 42N 53E | 7250 |
| 16H4 | Jack Peak | (Nev) 28 42N 53E | 8420 |
| 1735a | Jordan Valley | (Nev) 2 30S 46E | 4900 |
| 1855 | Laurel Draw | (Nev) 20 45N 53E | 6700 |
| 1766a | Lookout Butte | (Nev) 2 40S 47E | 5650 |
| 1754a | Louse Canyon | (Nev) 27 40S 44E | 6440 |
| 1743 | Martin Creek | (Nev) 18 44N 40E | 6700 |
| 15K20a | Nerritt Mountain | (Nev) 10 46N 54E | 7000 |

| | | | |
|--------|----------------------|------------------|------|
| 16H3AP | Midas | (Nev) 18 39N 46E | 7200 |
| 1667MP | Mud Flat | (Ida) 34 9S 2W | 5500 |
| 1765a | Oregon Canyon | (Nev) 8 40S 40E | 6950 |
| 1766a | Quinn Ridge | (Ida) 32 11S 41E | 6300 |
| 16G11a | Red Canyon | (Nev) 36 43N 4W | 6650 |
| 15H6NP | Rodeo Flat | (Nev) 6 44N 53E | 6800 |
| 15H3A | 76 Creek | (Nev) 6 44N 53E | 7100 |
| 16F3A* | Silver City | (Ida) 6 5S 3W | 6400 |
| 16G11A | Silvies | (Nev) 35 32S 33E | 6900 |
| 15H19a | South Mountain No. 2 | (Ida) 10 8S 5W | 6340 |
| 16F6a | Succor Creek | (Nev) 32 41N 58E | 7800 |
| 15H9MP | Taylor Canyon | (Nev) 25 35S 5W | 6100 |
| 16M7a | Toe Jam | (Nev) 35 39N 53E | 6200 |
| 15H8 | Tremewan Ranch | (Nev) 29 40N 50E | 7700 |
| 16G4NA | Triangle | (Ida) 9 39N 55E | 5700 |
| 18G5a | Trout Creek | (Ida) 10 41S 3W | 5150 |
| 18G7a | "V" Lake | (Ida) 31 35S 3E | 7800 |
| 16G12a | Vaught Ranch | (Ida) 10 11S 1W | 5950 |
| 16G13a | War Eagle | (Ida) 20 5S 3W | 7700 |

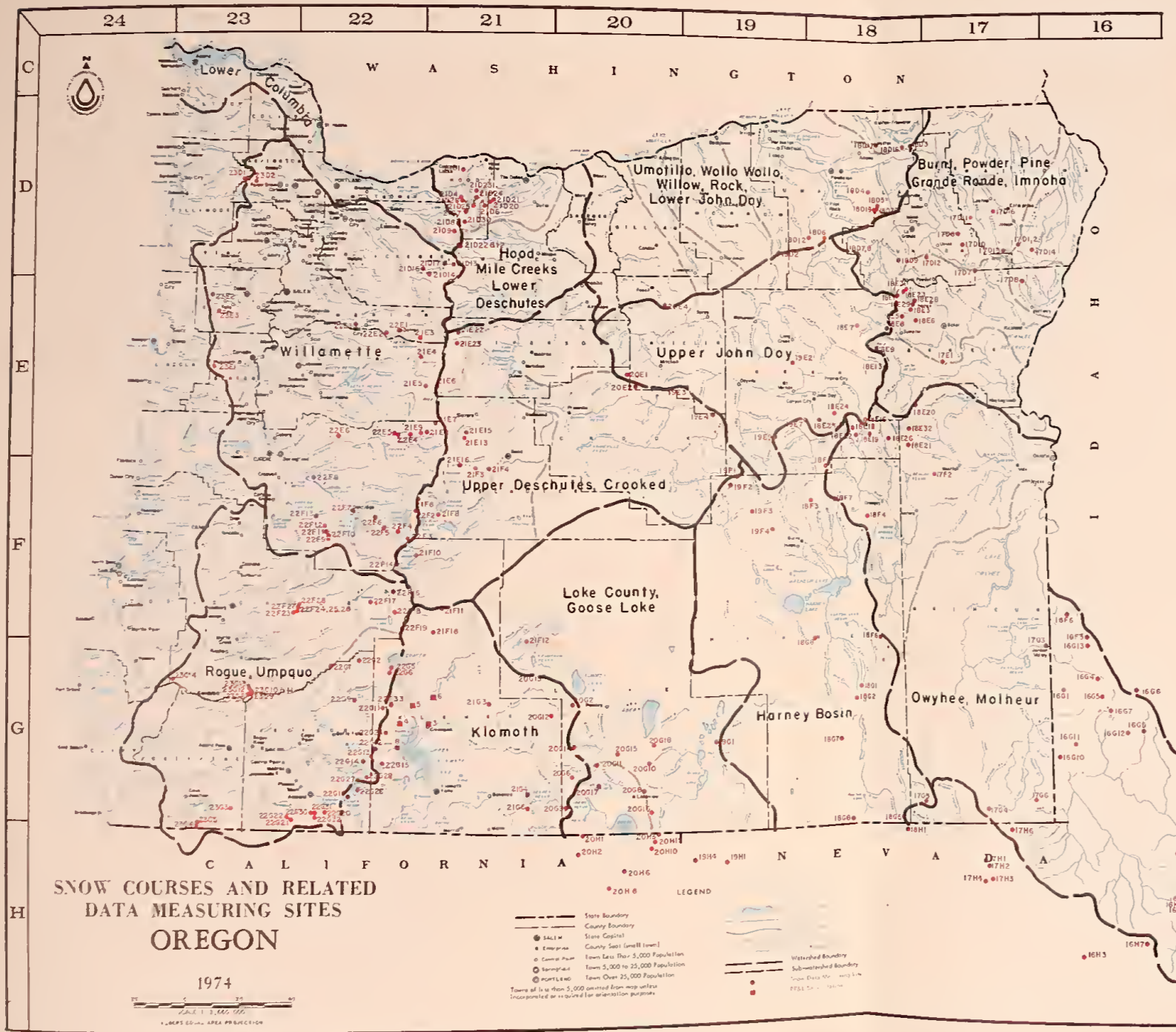
| BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS (12) | | | |
|---|---------------------|----------------|------|
| Burnt River | | | |
| 18E20 | Eldorado Pass | 20 14S 38E | 4600 |
| 18E26a | Flag Prairie | 32 16S 36E | 4750 |
| 18E18 | Lake Creek | 10 16S 33E | 5200 |
| 18E22a | Logan Valley | 13 16S 33E | 5100 |
| 18F1 | Rock Spring | 23 18S 32E | 5100 |
| 18E32* | S. Fk. Willow Cr. | 2 16S 37E | 5500 |
| 18F4P | Stinking Water | 34 21S 34E | 4800 |
| Grande Ronde River | | | |
| 1701 | Aneroid Lake No. 1 | 16 4S 45E | 7480 |
| 1702P | Aneroid Lake No. 2 | 16 4S 45E | 7300 |
| 18E1P | Anthony Lake | 18 7S 37E | 7125 |
| 1701a | Bald Mountain | 14 8 15 4S 41E | 6700 |
| 1809 | Beaver Reservoir | 28 4S 34E | 4800 |
| 1808P | County Line | 28 4S 34E | 4800 |
| 1806P | Lucky Strike | 28 3S 32E | 5050 |
| 1805 | Meacham | 24 1S 35E | 4300 |
| 18020 | Meacham Snow Pillow | 35 1S 35E | 4150 |
| 17013a | Mirror Lake | 34 4S 44E | 8200 |
| 1708H | Moss Spring | 28 3S 41E | 5850 |
| 1807 | Schoolmamm | 28 4S 34E | 4775 |
| 17011a | Standley | 21 2S 42E | 7400 |
| 1707P | Taylor Green | 3 6S 42E | 5740 |
| 1803 | Tollgate | 32 4N 38E | 5070 |
| 17016a | TV Ridge No. 2 | 12 2S 43E | 7000 |
| Imnaha River | | | |
| 1701 | Aneroid Lake No. 1 | 16 4S 45E | 7480 |
| 1702P | Aneroid Lake No. 2 | 16 4S 45E | 7300 |
| 17014a | Big Sheep | 33 4S 46E | 6200 |

| UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS (13) | | | |
|---|------------------------|-----------|------|
| Umatilla River | | | |
| 1902P | Arbuckle Mountain | 33 4S 29E | 5400 |
| 18012MP | Battle Mountain Summit | 29 3S 31E | 4340 |
| 20E4 | Butte Creek Summit | 5 8S 22E | 3930 |
| 1804M | Emigrant Springs | 29 1N 35E | 3925 |
| 18019 | High Ridge Pillow | 31 1S 35E | 4150 |
| 1806P | Lucky Strike | 28 3S 32E | 5050 |
| 1805 | Meacham | 24 1S 35E | 4300 |
| 18020 | Meacham Snow Pillow | 35 1S 35E | 4150 |
| 1803 | Tollgate | 32 4N 38E | 5070 |
| Walla Walla River | | | |
| 18016 | Blue Mountain Camp | 35 4N 37E | 4300 |
| 1803 | Tollgate | 32 4N 38E | 5070 |
| 18017 | Weston Mountain | 25 4N 35E | 2700 |

| WILLOW CREEK | | | |
|--------------------------------|------------------------|--------------|------|
| 1902P | Arbuckle Mountain | 33 4S 29E | 5400 |
| 18E1P | Anthony Lake | 18 7S 37E | 7125 |
| UPPER JOHN DAY WATERSHEDS (14) | | | |
| Upper John Day River | | | |
| 1902P | Arbuckle Mountain | 33 4S 29E | 5400 |
| 18012MP | Battle Mountain Summit | 29 3S 31E | 4340 |
| 19E2M | Beach Creek Summit | 32 3 11S 30E | 4500 |
| 18E16MP | Blue Mountain Springs | 21 15S 35E | 5950 |
| 18E13M | Blue Mountain Summit | 6 12S 36E | 5098 |
| 20E4 | Butte Creek Summit | 5 8S 22E | 3930 |
| 19E3MP | Oerr | 14 13S 23E | 5670 |
| 18E8 | Gold Center | 21 9S 36E | 5340 |
| 18E24a | Indian Cr. Butte | 5 15S 33E | 6550 |
| 19E9P | Izee Summit | 28 16S 29E | 5293 |
| 1806P | Lucky Strike | 28 3S 32E | 5050 |
| 20E1MP | Harks Creek | 25 20S 6E | 5500 |
| 20E2 | Ochoco Meadows | 21 13S 20E | 5240 |
| 18E7a | Olive Lake | 14 9S 34E | 6000 |
| 1807 | Schoolmamm | 28 4S 34E | 4775 |
| 19F1* | Snow Mountain | 1 19S 26E | 6220 |
| 19E7M | Starr Ridge | 20 15S 31E | 5150 |
| 18E9P | Tipton | 34 10S 35E | 5100 |
| 18E25MP | Williams Ranch | 20 15S 32E | 4500 |

| MCKENZIE RIVER | | | |
|------------------------------|--------------------|-----------|------|
| 21E6 | Hogg Pass | 24 13S 7E | 4755 |
| 21E4 | Marion Forks | 29 11S 7E | 2600 |
| 22E3 | Mill City | 29 9S 3E | 826 |
| 21E5 | Santiam Junction | 14 13S 7E | 3750 |
| 21E3 | Whitewater Bridge | 20 10S 7E | 2175 |
| MIDDLE FARK WILLAMETTE RIVER | | | |
| 22F3 | Cascade Summit | 7 23S 6E | 4880 |
| 22F8 | Lookout Point Dam | 13 19S 1W | 750 |
| 22F6 | McCredie Springs | 36 21S 4E | 2120 |
| 22F7 | Oakridge | 16 21S 3E | 1310 |
| 22F5 | Railroad Overpass | 21 22S 5E | 2750 |
| 22F4 | Salt Creek Falls | 32 22S 5E | 4000 |
| 22F2P | Waldo Lake | 15 24S 6E | 3600 |
| 22F14* | Willamette Pass | 33 24S 5E | 5600 |
| COAST FARK WILLAMETTE RIVER | | | |
| 22F9 | Champion | 12 23S 1E | 4500 |
| 22F10 | Golden Curry Creek | 1 23S 1E | 3136 |
| 22F13 | Layng Creek R. S. | 31 21S 1E | 1200 |
| 22F12 | Lund Park | 22 22S 1E | 1740 |
| 22F11 | Weaver Creek | 35 22S 1E | 2440 |

| PACIFIC POWER AND LIGHT COMPANY'S SNOW STATIONS | | | |
|---|-----------------------|-----------|------|
| 3 | Chiloquin (PP&L) | 34 34S 7E | 4187 |
| 4 | Crystal (PP&L) | 26 34S 6E | 4200 |
| 5 | Fort Klamath (PP&L) | 22 33S 7E | 4150 |
| 8 | Harrison Lodge (PP&L) | 3 36S 6E | 4200 |
| 6 | Kirk (PP&L) | 1 33S 7E | 4533 |



| UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS (13) | | | |
|---|------------------------|-----------|------|
| Umatilla River | | | |
| 1902P | Arbuckle Mountain | 33 4S 29E | 5400 |
| 18012MP | Battle Mountain Summit | 29 3S 31E | 4340 |
| 20E4 | Butte Creek Summit | 5 8S 22E | 3930 |
| 1804M | Emigrant Springs | 29 1N 35E | 3925 |
| 18019 | High Ridge Pillow | 31 1S 35E | 4150 |
| 1806P | Lucky Strike | 28 3S 32E | 5050 |
| 1805 | Meacham | 24 1S 35E | 4300 |
| 18020 | Meacham Snow Pillow | 35 1S 35E | 4150 |
| 1803 | Tollgate | 32 4N 38E | 5070 |
| Walla Walla River | | | |
| 18016 | Blue Mountain Camp | 35 4N 37E | 4300 |
| 1803 | Tollgate | 32 4N 38E | 5070 |
| 18017 | Weston Mountain | 25 4N 35E | 2700 |

| LEGEND | | | |
|--------|--|--|--|
| 1902 | SNOW COURSE ONLY | | |
| 1902M | SNOW COURSE AND SOIL MOISTURE | | |
| 1902MA | SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER | | |
| 1902A | SNOW COURSE AND AERIAL MARKER | | |
| 1902m | SOIL MOISTURE ONLY | | |
| 1902a | AERIAL MARKER ONLY | | |
| 1902P | SNOW COURSE AND PRECIPITATION GAGE | | |
| 1902p | PRECIPITATION GAGE ONLY | | |
| 1902* | RADIO TELEMETRY | | |

| UPPER DESCHUTES, CROOKED WATERSHEDS (15) | | | |
|--|----------------------|------------|------|
| Upper Deschutes River | | | |
| 21E22 | Bald Peter | 29 10S 9E | 5400 |
| 21F8 | Caldwell Ranch | 30 21S 9E | 4400 |
| 22F3 | Cascade Summit | 7 23S 6E | 4880 |
| 21F11 | Chemult | 21 27S 8E | 4760 |
| 21E6 | Hogg Pass | 24 13S 7E | 4755 |
| 21F4 | Hungry Flat | 29 18S 11E | 4400 |
| 21F6* | Irish-Taylor | 25 20S 6E | 5500 |
| 21F10 | New Crescent Lake | 11 24S 6E | 4800 |
| 21E16 | New Outchman Flat #2 | 21 18S 9E | 4400 |
| 21E23 | Racing Creek | 15 10S 9E | 4800 |
| 21F3 | Tangent | 28 18S 10E | 5400 |
| 21E15 | Three Creeks Butte | 27 16S 9E | 5200 |
| 21E13* | Three Creeks Meadows | 34 16S 9E | 5650 |
| 22F2P | Waldo Lake | 15 21S 6E | 5600 |
| 22F14* | Willamette Pass | 33 24S 5E | 5600 |
| Crooked River | | | |
| 19E3MP | Oerr | 14 13S 23E | 5670 |
| 20E1MP | Harks Creek | 25 20S 6E | 5500 |
| 20E2 | Ochoco Meadows | 21 13S 20E | 5200 |
| 19F1* | Snow Mountain | 1 19S 26E | 6220 |
| 19E4 | Tamarack | 8 15S 25E | 4800 |

| HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS (16) | | | |
|--|-------------------------|-----------|------|
| Hood River | | | |
| 2106P | Brooks Meadows | 2 2S 10E | 4300 |
| 2102S | Cooper Spur | 6 2S 10E | 3490 |
| 2101 | Greenpoint Reservoir | 27 2N 9E | 3200 |
| 21020 | Knebal Springs | 31 1S 11E | 3850 |
| 21023 | Parkdale | 5 1S 10E | 1770 |
| 2108* | Phlox Point | 7 3S 9E | 5400 |
| 2104 | Red Hill | 20 1S 9E | 4400 |
| 2109 | Still Creek | 25 3S 8E | 3670 |
| 21028 | Switchback | 28 1S 9E | 3255 |
| 2107P | Tilly Jane | 15 2S 9E | 6000 |
| 21021 | Ulrich Ranch Junction | 28 1S 11E | 3350 |
| 21030 | Umbrella Falls | 3 3S 9E | 5400 |
| 21024 | Upper Valley | 20 1S 10E | 2530 |
| Mile Creeks - Mosier Creek | | | |
| 2106P | Brooks Meadows | 2 2S 10E | 4300 |
| 21020 | Knebal Springs | 31 1S 11E | 3850 |
| 21021 | Ulrich Ranch Junction | 28 1S 11E | 3350 |
| Lower Deschutes River | | | |
| 21012 | Clear Lake | 29 4S 9E | 3500 |
| 21022 | Clear Lake Experimental | 29 4S 9E | 3500 |
| 21E6 | Hogg Pass | 24 13S 7E | 4755 |

| LOWER COLUMBIA WATERSHEDS (17) | | | |
|--------------------------------|----------------|-------------|------|
| Sandy River | | | |
| 2108* | Phlox Point | 7 3S 9E | 5400 |
| 2109 | Still Creek | 25 3S 8E | 3670 |
| WILLAMETTE WATERSHEDS (18) | | | |
| Clackamas River | | | |
| 21013 | Clackamas Lake | 3S 5S 8E | 3400 |
| 21012 | Clear Lake | 29 4S 9E | 3500 |
| 21016 | Lake Harriet | 4 6S 7E | 2045 |
| 21014P* | Peavine Ridge | 14 15 6S 7E | 3500 |
| 2108* | Phlox Point | 7 3S 9E | 5400 |
| 2109 | Still Creek | 25 3S 8E | 3670 |
| 21017 | Timothy Lake | 26 5S 8E | 3295 |
| Santiam River | | | |
| 22E1 | Detroit (City) | 1 10S 5E | 1610 |
| 22E2 | Detroit Dam | 7 10S 5E | 1580 |

| ROGUE, UMPOUA WATERSHEDS (19) | | | |
|-------------------------------|---------------------|-----------|------|
| Rogue River | | | |
| 23G4P | Althouse | 17 41S 7W | 4530 |
| 22G6 | Annie Spring | 19 31S 6E | 6018 |
| 22G28 | Beaver Dam Creek | 1 38S 4E | 5100 |
| 22G21P | Big Red Mountain | 31 40S 1W | 6250 |
| 22G13P | Billie Creek Divide | 30 36S 5E | 5300 |

The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon State University
Oregon State Engineer and Corps of State Watermasters
Oregon State Highway Engineers
Soil and Water Conservation Districts of Oregon

COUNTY

Douglas County Water Resources Survey

FEDERAL

Department of Agriculture
Cooperative Extension Service
Forest Service
Soil Conservation Service
Department of Commerce
NOAA, National Weather Service
Department of the Interior
Bonneville Power Administration
Bureau of Land Management
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
National Park Service
Department of National Defense
Corps of Army Engineers

PUBLIC UTILITIES

Pacific Power and Light Company
Portland General Electric Company
California-Pacific Utilities Company

MUNICIPALITIES

City of Baker
City of La Grande
City of The Dalles
City of Walla Walla

IRRIGATION DISTRICTS

Arnold Irrigation District
Associated Ditch Companies
Burnt River Irrigation District
Central Oregon Irrigation District
East Fork Irrigation District
Grants Pass Irrigation District
Hood River Irrigation District
Jordan Valley Irrigation District
Juniper Flat Irrigation District
Lakeview Water Users, Incorporated
Medford Irrigation District
Middle Fork Irrigation District
North Board of Control - Owyhee Project
North Unit Irrigation District
Ochoco Irrigation District
Rogue River Valley Irrigation District
South Board of Control - Owyhee Project
Squaw Creek Irrigation District
Talent Irrigation District
Tumalo Project
Vale-Oregon Irrigation District
Warm Springs Irrigation District

PRIVATE ORGANIZATIONS

The Crag Rats, Hood River, Oregon



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